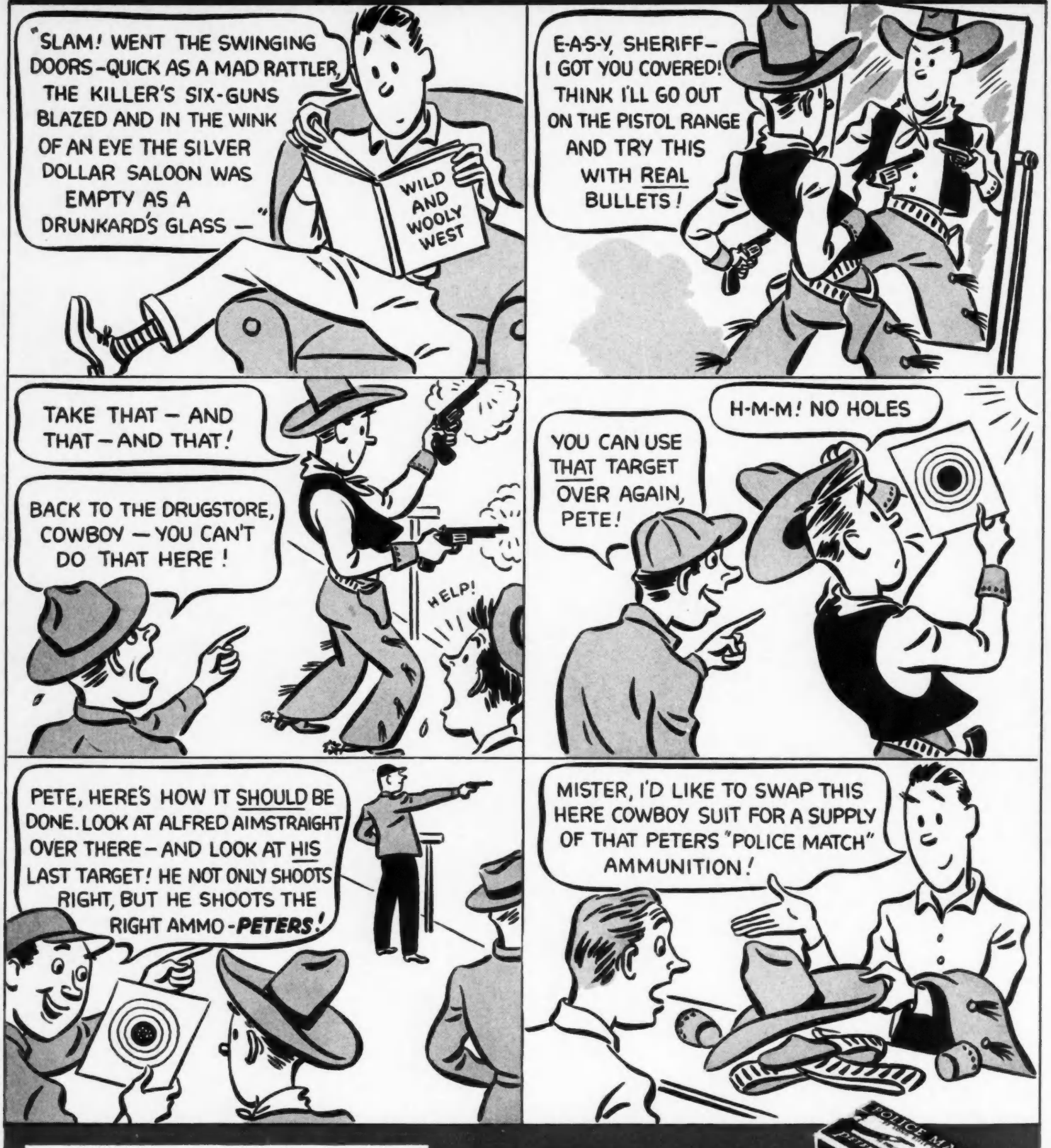
THE AMERICAN RIFLEMAN

Mr. Albin E. McNamara,
196-41- 45th ave., L
Flushing, N. Y. 11/28/36

Peter Peepsight pulls a fast one


"SLAM! WENT THE SWINGING DOORS–QUICK AS A MAD RATTLER, THE KILLER'S SIX-GUNS BLAZED AND IN THE WINK OF AN EYE THE SILVER DOLLAR SALOON WAS EMPTY AS A DRUNKARD'S GLASS —"
WILD AND WOOLY WEST
E-A-S-Y, SHERIFF– I GOT YOU COVERED! THINK I'LL GO OUT ON THE PISTOL RANGE AND TRY THIS WITH REAL BULLETS!
TAKE THAT – AND THAT – AND THAT!
BACK TO THE DRUGSTORE, COWBOY — YOU CAN'T DO THAT HERE!
HELP!
H-M-M! NO HOLES
YOU CAN USE THAT TARGET OVER AGAIN, PETE!
PETE, HERE'S HOW IT SHOULD BE DONE. LOOK AT ALFRED AIMSTRAIGHT OVER THERE – AND LOOK AT HIS LAST TARGET! HE NOT ONLY SHOOTS RIGHT, BUT HE SHOOTS THE RIGHT AMMO-PETERS!
MISTER, I'D LIKE TO SWAP THIS HERE COWBOY SUIT FOR A SUPPLY OF THAT PETERS "POLICE MATCH" AMMUNITION!

Straight shooting calls for a good stance, a steady hand, plenty of practice, and *good ammunition!* One way to be sure of that is to insist upon Peters "Police Match" ammunition, whether .22's, .32's, .38's or .45's. Shot after shot it holds to high accuracy standards because it's made under laboratory control from start to finish. "Rustless" priming prevents barrel corrosion, too. Why not tighten up *your* groups with "Police Match"?

PETERS

DU PONT

PETERS CARTRIDGE DIVISION
Remington Arms Co., Inc., Bridgeport, Conn.
"Rustless" is Reg. U. S. Pat. Off. "Police Match" is a trade-mark of Peters Cartridge Division.

PETERS
POLICE MATCH
Rustless
Ammunition

EVENING COURIER
Home
U. S. Navy Commissions New Battle Cruiser

THE NAVY "E" pennant flying over the Bausch & Lomb plant is official recognition of accomplishment in Production for Victory. It symbolizes a singleness of purpose that justifies any sacrifice you or we may be called upon to make.

Awarded July 21, 1941.

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SPOTTING SCOPES . . .
SUN GLASSES . . . AND
OTHER THINGS . . . . .

At Bausch & Lomb, Production for Victory comes first. Our facilities for the production of optical instruments are being rapidly increased. If you meet with difficulty in getting Bausch & Lomb products for your private use, we know you will understand that we are making every effort to give traditional Bausch & Lomb service to our three most important customers, the Army, the Navy, and you.

★

Dr. Braddock's Microscope Was Commissioned Today

DR. BRADDOCK wants a new microscope—a Bausch & Lomb Microscope . . . and he's going to get it. It won't be today, though, for today America commissioned a new cruiser.

On this ship there are many optical instruments with a myriad of optical parts, made by the same hands that, in other times, might be grinding the lenses for Dr. Braddock's microscope. There are range finders fore and aft, and a score of smaller ones in strategic places about the ship. The glasses with which the officers scan the horizon are Bausch & Lomb products. Yes, and there's a B&L Microscope, a duplicate of the one Dr. Braddock wants, in the laboratory of the ship's hospital.

Dr. Braddock still wants his microscope, but because he knows these things he is willing to wait. Thousands of "Dr. Braddocks" are making earlier victory possible.

Throughout the Bausch & Lomb plant, optical engineers and optical craftsmen are working long and tirelessly to further America's war effort. The lessons they are learning in the white heat of the drive for Victory will be available later to further the peacetime interests of science and industry.

BAUSCH & LOMB
OPTICAL CO. • ROCHESTER, NEW YORK
ESTABLISHED 1853

AN AMERICAN SCIENTIFIC INSTITUTION PRODUCING OPTICAL GLASS AND INSTRUMENTS FOR MILITARY USE, EDUCATION, RESEARCH, INDUSTRY AND EYESIGHT CORRECTION

WHAT CAN I DO TO HELP?

IN this period of national emergency, everyone on the home front must put forth extra effort to help bring this war to an early and victorious end. You, as a rifleman, can do several things to help.

If you are of draft age, keep up your rifle practice while awaiting induction. A good marksman is not only an asset to the armed forces, but also is better able to protect himself in battle.

Civilian Defense groups are eager to receive instructions in marksmanship and the proper handling of firearms. It is the duty of every rifle club to offer its facilities and the help of its qualified members so that these groups are properly trained.

If you are past draft age, your responsibility is twofold. You should pass on your experience and training to the junior shooters—help make the army of tomorrow an army of trained marksmen. Keep in practice yourself—you may be called upon to guard vital industrial plants in your locality.

Every rifle shooter should participate in the Civilian Defense movement. Let's all do that little "extra" that will speed Victory.

SPORTING POWDER DIVISION

HERCULES POWDER COMPANY
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COLT

SALUTES THE 1941
TEAMS OF THE YEAR

★ ★ ★

UNITED STATES TREASURY AND DETROIT POLICE TEAMS — TOGETHER HOLD 9 OUT OF 12 NATIONAL RECORDS

YOU'D have to toss a coin to decide who was the 1941 TEAM OF THE YEAR. It was nip and tuck shooting all the way between Lt. Charles Hubbard's U. S. Treasury Team and the crack Detroit Police Team coached by Lt. Marvin Driver. Both teams played tag with each other all year for first and second positions. Thus Colt salutes them both. Detroit victories included two team events at Tampa — one at Coral Gables — two at the North Central Matches — three at Michigan State — one at Pre-Perry and another at Perry itself. And in addition six second places. Treasury wins were at Pre-Perry, two at Camp Perry, one at Tampa and three at Coral Gables. Also three times runner up.

Individually and collectively the members of these two great Colt-shooting teams deserve plenty of praise for their performances on firing lines in '41 . . . and for the excellent sportsmanship that has always marked their shooting!

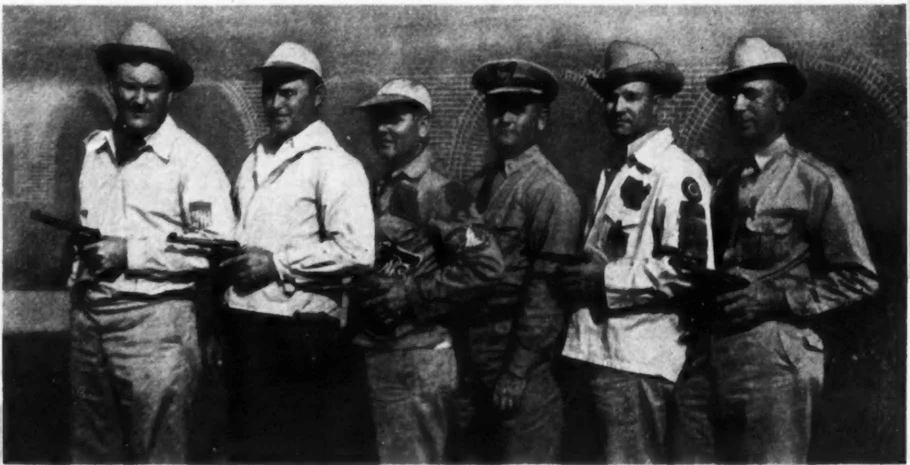
NATIONAL RECORDS ELD BY DETROIT POLICE TEAM

COURSE	SCORE
4-Man Team	
.22 Camp Perry	1174
.45 Camp Perry	1119
.45 Nat. Match	1140
5-Man Team	
.45 Camp Perry	1455

THE DETROIT POLICE TEAM: *left to right:*
Al Shapiro, Al Hemming, Marvin Driver, Maurice LaLonde, Harry Reeves.

ATIONAL RECORDS ELD BY U. S. REASURY TEAM

COURSE	SCORE
4-Man Team	
.22 Nat. Match	1172
C.F. Camp Perry	1183
C.F. Nat. Match	1156
5-Man Team	
C.F. Nat. Match	1419
.45 Nat. Match	1403



THE U. S. TREASURY TEAM: *left to right:*
Lee Echols, Arnvid Anderson, Melton Rogers, Charles Hubbard, A. L. Meloche, Percy Chapman.

AND THESE ARE THE GUNS THEY USED

.22

MATCH TARGET
WOODSMAN
.22 CAL. AUTOMATIC PISTOL

.38

OFFICERS' MODEL
.38 CAL. TARGET REVOLVER

.45

NATIONAL MATCH
.45 CAL. AUTOMATIC PISTOL

WINCHESTER
PRECISION
50
EZXS
.22
LONG RIFLE
MATCH CARTRIDGES
WINCHESTER
PRECISION
EZXS
SUPREME ACCURACY
MATCH CARTRIDGES

From Tyro Shot to Master Class There's Help for ALL in EZXS

AROUSED straight-shooting civilian America wants rifle practice, wants proof of shooting skill, wants competition. Wants them NOW. And is *getting* them! All over the country, National Rifle Association and other civilian small-bore rifle clubs—community, industrial and institutional—are taking care of that.

On top of piling up new memberships, everywhere the clubs are also piling up higher scoring averages. Tyros are out for Marksman rating, the Marksman for Expert, the Expert for Master Class. Behind the lines, all over the land, the same two-fisted American manhood which responded to the attack on Pearl Harbor is reviving the American civilian's traditional keen marksmanship.

To every small-bore rifle shooter, whether trainee, experienced devotee of average skill or known competitive expert, there is vital encouragement and active help in the consistent fine accuracy of Winchester Precision EZXS Match Cartridges. On any range, in practice firing or in any match . . . anywhere in your string, when you load an EZXS and close your bolt on it, you know your spotting 'scope will show your bullet hole right where you've called it! That's Winchester Precision.

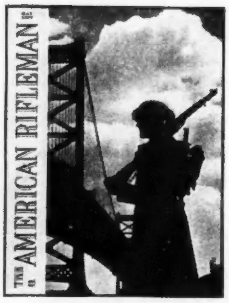
True precision performance has been the guiding star of Winchester rim-fire cartridge manufacturing for over 75 years. Superbly balanced precision ammunition, produced with all the accumulated "know how" of Winchester's three-quarters of a century of experience, is yours in EZXS.

WINCHESTER REPEATING ARMS COMPANY, NEW HAVEN, CONN., U. S. A.
Division of Western Cartridge Co.

WINCHESTER PRECISION EZXS
TRADE MARK

The AMERICAN RIFLEMAN

Official Journal of The National Rifle Association of America



THE COVER—Sabotage remains an ever-present threat to America's communications, war industries, all-out offense effort. The more important now guarded by Uncle Sam's soldiers like the one on the cover, hundreds of other strategic spots beg watching—a job made to order for our rifle and pistol clubs. The trained marksmen, confident in their arms and discipline, offer the finest reserve for such tasks. Division of effort need cause no great time sacrifice for any one member, yet provide a definite responsibility, perchance relieving fighting men for the actual front. Photo by Lambert Studios, Philadelphia.

BERT 'YANK' LEVY, author of the excellent little book "Guerrilla Warfare" is an American now instructing and lecturing with the British Home Guard. Basis for his very practical discussion is his experience as a guerrilla fighter during the Spanish Civil War. Within the pages of the book his background of additional adventures crops out, such as his reference to campaigning with Sandino in Nicaragua when the U. S. Marines were giving chase.

RALPH C. MORTON, contributing the interesting prairie dog story in this issue, is a prominent Bismarck, N. D attorney. A real outdoorsman, making use of his limited leisure to enjoy the hunting provided by his favorable locale, he incorporates enough real gun dope within his accounts to make his articles definite RIFLEMAN copy.

BILL RIEDELL, St. Albans, Long Island, N. Y. has been a most active member of the Manhattan Rifle and Revolver Association's winning teams for many years. Fancying the art of slow fire pistol work, he has made a special study of the free pistols in light of his U. S. team competition in the last Olympics, 1936. He brings these guns to the attention of RIFLEMAN readers this month in "What About the Free Pistol?"

WALLACE TABER is a newcomer to RIFLEMAN columns although, by now, well known in conservation circles. Winner of the American Wildlife Institute's scholarship for most promising wildlife writer, he now becomes associated with that organization as educational director to carry on the splendid work of Bill McCormick whose resignation to enter war reporting becomes effective this month.

Others introduced previously or well-known in rifle and pistol circles: Walter Roper, Bill Lewis, Charles Haven, Garry Underhill of *Life* Magazine, round out the parade for May.

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Guerrilla Warf

History never repeats itself. But there are many things which some of us thought belonged wholly to the past which recur, from time to time, throughout the centuries, in somewhat different form, and brought about by different circumstances. Guerrilla warfare is one of these things.

There are some who have thought and said, "Guerrilla fighting is a thing of the past, or at least it belongs only to bits of warfare in distant places, in which backward peoples are involved—on the North-West frontier of India, for example." But these people are thinking still—as, unfortunately, so many still do—in the terms of the World War of 1914 to 1918, of a war with firmly locked, extensive "fronts."

Modern warfare—not only the present great war, but the Civil War in Spain and the war now raging in China—has brought back guerrilla fighting, for now there are no fixed, rigid, long-term "fronts." . . .

Guerrilla warfare is that method of fighting which is employed by men living in an area occupied or surrounded by the enemy. . . . And guerrilla warfare is essentially the weapon of free men—a guerrilla band functioning efficiently under compulsion is inconceivable. Fascism or Nazism—and they are fundamentally the same—set out to destroy in men the very qualities which are most prized in guerrilla fighting. Free men, hating oppression, with freedom of initiative and arms in their hands—these make the ideal guerrillas. . . .

The Red Indians of North America defended their country against the paleface invader by guerrilla tactics. These Red Indians were of course savages, but they also happen to be the inventors of modern warfare. They gave the British forces sent against them such an unpleasant time that those British forces had to unlearn a great many things, and learn many new things before they could be of much use. Stiff English units all trained to move like clockwork soldiers on parade were always running into Indian ambushes. In one of the worst of these ambushes General Braddock was killed and almost all his force cut to pieces; one of the few who escaped was a handy solid fellow called George Washington who knew what to do when there were Indians about.

In order to be somewhere near on a level with the Indian guerrillas, the British Army had to form its first effective light infantry unit, who were called the Royal American Rifles. These men were given green coats to wear, instead of scarlet, black buttons instead of shining brass.

The Rifle Brigade is the direct inheritor of the first modern soldiers clothed for invisibility and taught to fight as skirmishers and snipers . . . and this is already the case with the special forces raised in Britain called Commandos. They are half soldiers, half marines, and wholly guerrilla. Their name derives from the Boer War. When the Boer armies had been defeated they split up into small "commandos" that carried on the struggle against large British armies for about a couple of years. The Boers taught us something and it is good that we have not forgotten it. . . .

When we read about guerrilla warfare in the days gone by—about, for example, guerrilla bands in Spain operating against Napoleon's forces—there is one thing which stands out. These bodies were hastily improvised; they sprang up spontaneously *after* the invader had been operating for some time. Yet they were very effective.

How much more so, then, had they been prepared—had they learned beforehand the technique of guerrilla fighting, and studied the terrain in which they were going to operate.

We have a valuable advantage over these guerrillas of history. We are not yet invaded—we may never be—but we can be prepared. We can begin right now to survey our local territory, to learn the tactics of guerrilla warfare, to practise the ruses and strategems by which the enemy may be weakened and obstructed.

I would impress upon every potential defender of this country, every member of the population who is fitted to take part in guerrilla fighting, every Home Guard unit, the golden precept: *be prepared!* Instead of having hastily to form our fighting bands, on the spur of the moment, and then to lose time locating favourable spots for headquarters, hiding-places, rallying and dispersal points; instead of having to learn the methods of organized guerrilla fighting by painful and arduous rule-of-thumb trial and error, let us start right now.

What is the first requirement in this preparedness? Guerrilla fighters operate in their own particular section of the countryside, on their own hills and highways, in and around their own towns and villages. Therefore the first requirement is: know your own territory, and know it both by day and by night. . . .

Get your local bearings. Learn to be able to say, at a second's notice, wherever you may be walking or riding,

From an Important New
Penguin-Infantry Journal Book

fare by "Yank" Levy

which is the south, north, east and west. Know in what direction every road runs, nor merely its compass direction but to what town it runs and through what valleys, plains and hamlets, and over what hills. Make yourself acquainted with field-paths and short cuts, and with the kind of cover they possess—hedges, trees, ditches, etc.

Find out the points in your territory which make the best observation posts, from which wide views may be obtained. Classify them according to the time of day when they will be most useful. A good post in the morning, with the sun rising in the east behind you and illuminating the terrain in front, may be useless in the evening when the lateral rays of the sun strike you full in the eyes, half-blinding you, and perhaps making concealment doubly difficult. . . .

It is not only the country roads, the woods, hills and valleys, which you must study. You must know also the towns and villages in your district. The enemy will not keep to the countryside. He will endeavor to occupy the populated centres. Here also you can carry on guerrilla warfare, sniping, ambushing, blowing him up. You must know the general street plan of the towns or villages. You must know every entrance and exit to them also—not only the main roads, with their tank obstacles, but every side street or pathway leading into the town. Not merely to keep the enemy out, but also so that you can sneak in and out when he is there, or near.

You must know which houses in the towns or villages can best be adapted for conversion into observation posts, strong points or hiding places. We do not want to postpone till the day of need the selection of the buildings which will be used in this manner. . . .

Both in town and country, it is worthwhile noting spots which you can use as hide-outs or temporary headquarters or bivouacs when guerrilla war begins. While you can never be sure that the enemy won't get there first, you should select places to which he is unlikely to penetrate during his advance, or for some time after his occupation.

Another point to bear in mind is to memorize every bit of "dead ground" in your district. This is territory which, by its natural conformation, is shielded from the enemy's view and fire. Such territory is very suitable for guerrillas to pass through, or in which to rest. It is also eminently suitable for luring the enemy into prepared traps, where we can deal with them without being observed by their larger units. While there are not many pieces of *perfect* dead territory—which the enemy cannot observe from any angle or direction, except perhaps from an aeroplane—there are many which may be "dead" from the east, or the north, south or west. You must remember from which direction these areas are "dead", so that later you can use them—once you know the location of the enemy.

Preparedness does not consist only of knowledge, for knowledge is useless without practice. I therefore strongly recommend that Home Guards be given plenty of exercises which will test their knowledge of their territory and also prepare them for guerrilla warfare. Those units of the Home Guard which lay all emphasis on drills, route marches and other exercises which are identical with those of the regular army are making a sad mistake, that they may regret when it is too late. . . .

As guerrilla fighters we do not expect to engage in pitched battles with the enemy forces. That would be suicidal—and it most certainly would not be guerrilla warfare. That is the job of the regular army. The activities of the guerrilla bands will consist of: observing

the enemy and his movements (reconnaissance and scouting), obstructing the enemy's movements, and harassing the enemy by surreptitious or surprise action.

Observation of the enemy is not only essential to guerrilla fighters, so that they may know when to attack and when not to; when to shift quarters; it is also very useful to gain knowledge of enemy positions, numbers, units, etc., to relay to our regular troops.

Invisibility is the guerrilla's fortress. The only one he can hope for. Steel and concrete can be shattered by high explosives, but how can you blast invisibility? Of what use heavy artillery or dive-bombers against ghosts or will-o'-the-wisps? The guerrilla keeps moving, seldom staying in one place for more than a night unless he has, in wild or mountainous country, an unusually secure stronghold. He is everywhere and nowhere; he strikes, one day here, the next day there. He knows how to take cover and how to camouflage himself and his belongings. . . .

The two things we must bear in mind when travelling are invisibility and silence. We must not be seen nor must we be heard. The necessity for concealment and stillness must so saturate our minds that we never make a movement without automatically taking advantage of cover—whether of irregularities of the land, of objects, or of shadow—nor without guarding against any revealing noise.

Move always in the shadows, even going out of your way to follow them. Remember that the longer way round under cover is better than the shorter route if you are exposed. Take advantage of every bush, of trees, of slopes in the ground which lie between you and the enemy. Avoid moving along the top of a ridge or slope, for then you will be silhouetted against the sky line. Don't cross the crest of a hill but work round it, a little lower than the highest point. If you must cross a hill-crest or ridge, you should crawl. . . .

Whether you are walking, crouching, crawling, or "snaking," your movements should be deliberate and slow. Never move jerkily. The world of nature is usually in continuous motion, even on the calmest day, and particularly in this country where breezes hardly ever fail. Slow, flowing movement on your part will harmonize with the movements of the growth around or behind you. If you are lying down or crawling on all-fours, keep your feet on the ground and do not stick your behind up in the air.

Do not forget that your uniform is designed to blend with the prevailing colours of the countryside. If you wear civilian clothes, choose things of a neutral colour, brown or dark grey—not white, light grey, black or navy blue. A rain-coat is almost invariably khaki coloured, and therefore makes for good concealment. If your coat, trousers and waistcoat are of different shades, all the better. When you use shadow for concealment, never forget your background. If you stand in a shadow cast from one side of you, but with sunlight behind you, the shadow does not help. Either you must have behind you the object which casts the shadow—a wall or tree or whatever it is—or, if the shadow is cast from one side, it should be continuous behind you for some way, as the shadow cast by a hedge, for instance.

You can assist the process of concealment by using personal camouflage. Your uniform, or even dull-coloured civilian clothing, are the beginnings of camouflage; but we can add to this. Immobility is also a form of camouflage, as you well know if you have ever noted how a brilliantly coloured bird—such as a cock pheasant—can remain unobserved merely by remaining perfectly still. Carry a piece of burnt cork with you. With it you can smear strips of black across your face, neck, ears and hands—which are the first to show up if you are observed from a distance.

* * *

Our job is to harry the enemy to such an extent that he will have to retire from outlying points to his more heavily guarded positions, and will have to devote larger and larger sections of his troops to police and guard duties, thus wasting man-power.

One of the most effective means of doing this is by the ambush. Of these there are various kinds—ambushes which are traps for the solitary motor-cyclist or car, for which a very small number—sometimes only a couple—of guerrillas is needed, and those which are designed to dispose of convoys, small bodies of troops, and so on. For the latter, larger groups must be employed.

In ambushing, three points should be borne in mind. There must be adequate cover—for the essence of ambush is surprise—you must have a good get-away arranged, and you should also decide upon a meeting-place for your group to get together again after the action, unless you already have some sort of headquarters. . . .

My advice to guerrillas is always to attempt to stop a motor-cyclist or a private car in preference even to a tank. Holding up one message may cost the enemy twenty tanks. Strange as it may seem, with the exception of the chauffeur, a private car rarely carries a private. If you are lucky you may even land a general.

A good way to stop a motor-cyclist is by stretching a quarter-inch cable or wire across a roadway. If you are sure a motor-cyclist is coming, put it up beforehand. Otherwise, have a brick tied to one end of it and be ready to sling it across the road, where others will secure it, while the Nazi is a mile away. Attach the wire to trees or fence-posts at a height of from three to three and a half feet from the ground. Don't use two posts or trees which are directly opposite each other, but, preferably, string your line diagonally across the road, at an angle of about 30 degrees. The effect of this will be to make the motor-cyclist, when he hits it, slide along it and into the ditch, if there is one, or on to the verge of the road, right near where you and your companions are waiting—on each side of the road, of course, for you don't know from what direction the first rider is coming. This also leaves the roadway free for another rider who might otherwise pull up if he saw a wrecked machine lying in the middle of the highway.

As soon as your cyclist spills, go for his weapons. He is probably hurt, or busy disentangling himself from his machine. So get his weapons first and him afterwards. You will want to take him alive, although guerrilla bands have not much accommodation for prisoners. If our guerrillas have been playing Old Harry with despatch riders, the enemy may not have given him a written message, or they may have given him a fake one. Your leader will want to question him, therefore, to induce him to disclose his verbal message. And on this the lives of thousands might depend. . . .

Excerpts from "Guerrilla Warfare" by "Yank" Levy. Penguin-Infantry Journal Books, Washington and New York, 1942. 25¢. May be obtained postpaid from NRA Book Department.

An Editorial

CORRECT THE FOCUS

A lot of people are looking at this war through glasses which need correction. The image they see is distorted or it is tinted too dark or too rosy by spectacles made from out-of-date prescriptions. That the lenses of "appeasement" and "isolation" caused near-sightedness is now clearly evident to most of the world, but there are still some who wear the old spectacles!

Many still view the world through lenses ground to the old prescription—"We are Fighting to Preserve Democracy." Viewed with clear vision, this is no war to save anything so abstract as the widely varying definitions of "Democracy." If we lose, we die as a people. If we win, the victory will bring no lasting peace unless we have destroyed those who have now set out to destroy us. That is brutal, but honest.

Another prescription, one labeled "Your Money Will Buy Victory", called for rose-colored glasses. It has done untold harm to the vision of the American people. Victory in this war cannot be bought with dollars. It must be paid for as men on Wake and Bataan and their wives and mothers in America have already paid. We must clear our vision until we are able to see that nothing less will suffice!

There is a form of near-sightedness diagnosed as "the-other-fellowitis." Victims are able to see but dimly the sacrifices of other men whose source of income has been shut off by war's inexorable demands. But their own sacrifices appear magnified many times when the same thing happens to them. How often do we hear—"Certainly, some things had to be stopped, but there is no reason to shut down on my business. I am willing to pay high taxes and buy war bonds, but it isn't fair to put me out of business." Get rid of those dark glasses, man; change to a pair that will let you see things in their true light. Sure, you may lose your job, but you can find another. That mother who loses her boy can't find another!

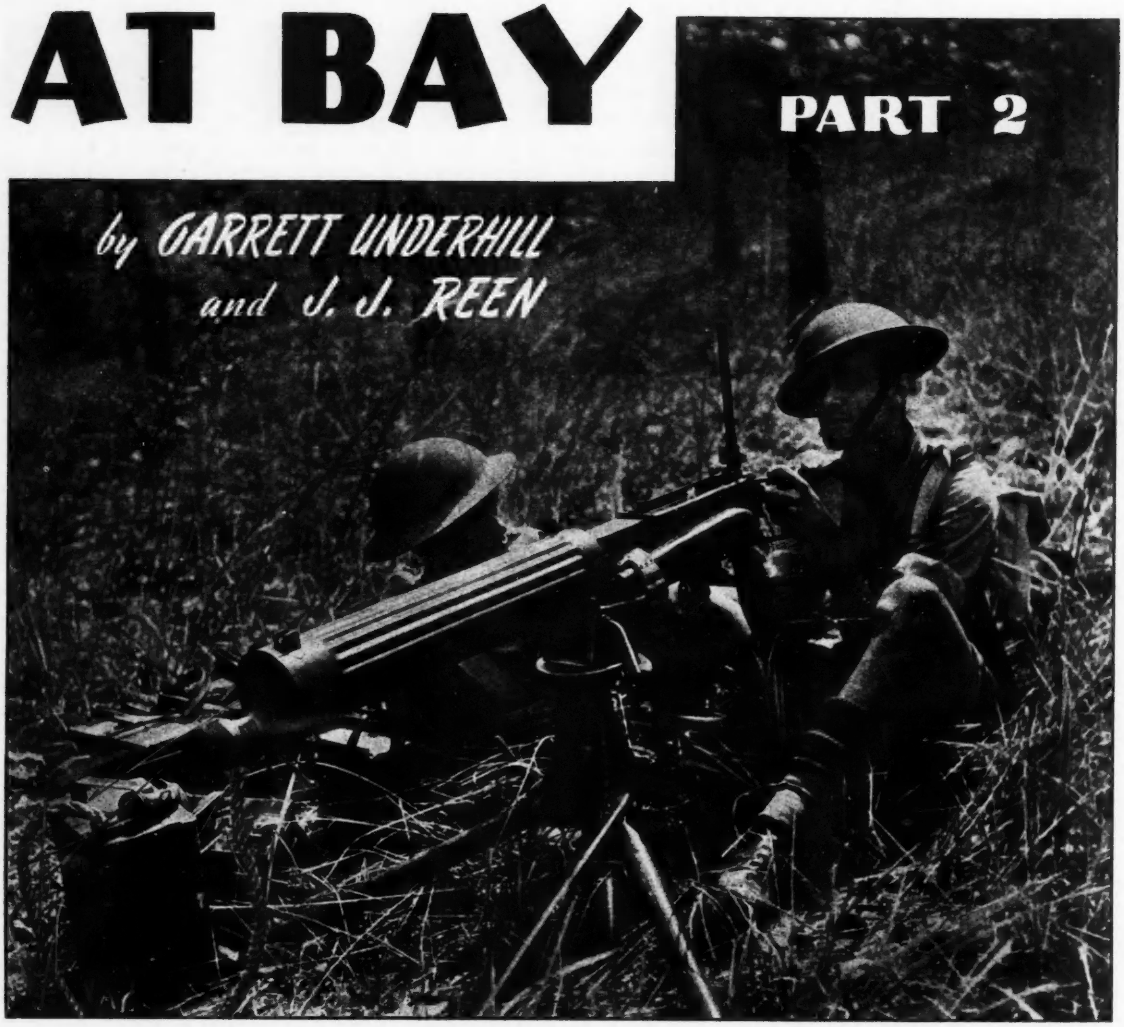
A form of war-time near-sightedness which seems to bother politicians more than it does the people is labeled "Maintenance of Living Standards." Now, "high living standards" are impossible of exact definition. They are intangible things, differing in every man's mind from the conception of his neighbor. The pioneers and immigrants who risked their lives and racked their bodies to build America left the "old country" to escape a standard of living set for them by government, guild and custom. In America they toiled, and they fought, to establish a nation, a system of government, a philosophy that would permit every man to envision his own "high living standard." That is one of the common man's ideals which would die if America died in this war. 'Twould be sublime tragedy if the men of America became so near-sighted as to see only some "high standard of living" envisioned for them by government, guild or custom, and, striving to hold on to that synthetic thing, lost all that was real by losing this war. In the safety of America, from the comfort of an overstuffed chair, with our stomachs full of good food, what right have we to prate of maintaining our "standards of living" when other Americans, racked with fever and gunshot wounds, living like savages with empty bellies in the brush on Luzon, are fighting to preserve for us an America in which every man may worship the God of his choosing, marry the woman of his heart, and out of his own courage, ability and willingness to work, achieve his own conception of a "high living standard!"

All of us, as a Nation; each of us, as an individual, must discard glasses which distort our vision or cast a tint, too rosy or too dark, over the embattled scene. With clear, sharp-focused, long range vision we can shorten the journey over that hard road, through fog and storm, that stretches ahead to Victory.—C. B. L.

BRITISH LION AT BAY

PART 2

by GARRETT UNDERHILL and J. J. REEN



This Vickers machine gun crew saw action on the Malay front. Photograph was taken before Jap invasion.

Here is one way to carry ammunition and water when enemy has position under fire. Cans hold 650 rounds

In the first article of this series, stress was laid on the need for fair-mindedness on the part of the millions of Americans who have and will come into contact with British arms. It may be said that there is much to criticize about British equipment, just as the British find much that is queer in our operations and weapons. Nevertheless, they should recall that not infrequently the British have a good eye for the practical side of things—as was true in the case of the Lee-Enfield rifle. And it must be admitted that the British have often had the jump on us completely and undisputedly.

No weapon better illustrates the validity of these assertions than the case of the present British heavy Vickers machine gun. Americans will undoubtedly call it obsolete. They will scorn the Maxim recoil operation that sends heavy breechblock parts flopping up and down in firing. They will hold that this feature, together with the crude-looking pole sight, are not as finely thought out and finished designs as those on our Browning. The traversing dial, and the elevating gear found at the rear end of the characteristic arc of the mount will surely be ridiculed because the graduations are marked off in degrees and minutes.

Insofar as they concern *a priori* criticism, these remarks will be just. Certainly it would seem that the British method of using the 360-degree circle with subdivisions in minutes and seconds is more confusing than our simple assumption that a circle is divided into 6400 mils. Talking about degrees and minutes in battle orders is always likely to lead to confusion with time and temperature measurement. The British cannot even cure this by talking of area measurement minutes as "minutes of angle." Besides, the relation that works out with a minute of angle subtended by 1.047 inches (roughly 1 inch) for every hundred yards of range sounds infinitely more complex than the mil relation used by us, the French and the Germans. Ours says that one mil subtends one yard at 1000 yards—or, a house appearing 5 mils wide on your binoculars' scale at 1000 yards is 5 yards wide. Theirs—well, let the reader figure it out.

British still use US 1917 Brownings sent via lend-lease when German invasion of British isles seemed near

Two-inch mortar is used in extreme forward positions to destroy enemy machine guns or smoke them out

India's fierce Gurkhas fought in Malaya alongside British. This crew is loading 3-inch mortar in maneuvers

While Americans will always fail to understand this fire-control system—which obtains throughout the British Army from rifle platoons to artillery troops—they ought to understand why the British have the Vickers. The primary reason is one of limited resources for rearmament. The secondary reason is that the British were in the machine gun business long before we were. Their entry into this field dates back to 1891. Although these first guns were troublesome largely because their introduction was prior to that of the smokeless cartridge, nevertheless, these Maxims did great work against the Matabeles, in the Sudan and on India's Northwest Frontier. Maxims—recoil operated, water-cooled guns—were thus used by England years before even Germany went in for machine guns. They were being acquired in fair numbers well before we began to dally with a few Maxims (Model 1904), and gas-operated Colts.* Of course, the British conservatives did not understand the success of the Jap Hotchkiss and Russian Maxims even as late as the Russo-Japanese War, but they did have a good gun in service in numbers when the First World War indicated to them in a painful fashion the value of automatic weapons. Thus they were soon able to go into production on a new and lighter version of their tried-and-true Maxim, and rolled along on it throughout the war. Known as the Vickers of 1915 (the Maxim patents had expired), this machine gun was bought in quantity by the US Army from the Colt Company in December, 1916. It was in production over here while tests were still being conducted on our present M1917 Browning. Thousands on either ground or aircraft mounts were used by our forces, while few of the Brownings ever became available in time for the war. In short, the Vickers-Maxim is a tribute to the foresight of the British compared to that of the Americans. When the last war came, the British had a tested gun of their own for war production and service. We didn't. That is why, in this war, the first are last, and the last first. We are the last on the scene, and so have the best gun.

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* *In spite of vigorous proselytizing by a young Ordnance machine gun authority, Captain Julian Hatcher (now the well-known General), on April 6, 1917 the US Army had exactly 670 Benet-Merciers, 282 Maxims of 1904, 148 Colts, and 353 Lewises—to compare with the tens of thousands used by England.*

As a matter of fact, there are many similarities between the heavy machine guns of the two nations. The .303 Vickers with its typical corrugated water jacket weighs 30 pounds against the Browning's 33½ pounds. Its 52-pound tripod outweighs the Browning's by only a pound, and has an almost identical leg and clamp system. The Vickers fabric belt is a little different, but like our belt it holds 250 rounds. Its fire rate of 500 rounds per minute is comparable to that of the Browning's. The marked points of difference so far unmentioned are the range, the mainspring, and the gas-assistor at the muzzle. In the Vickers, the range is only 2900 yards against the Browning's maximum of 3400. Along the left side of the receiver, the rounded spring housing characteristically labels the Vickers as a Maxim gun. Finally, the barrel end screws into a cup, which in turn helps catch the powder gas blown back from an extension of the jacket over the muzzle.

The 1937 Boys antitank rifle (right) and the German M-39 (below) have played stellar roles in North Africa in the see-saw engagements between Rommel and British

International

As in the American Army, the heavy machine guns are organized in platoons. These platoons are subdivided into two sections, the two guns of each section usually working as a unit on identical missions so that constant fire can be secured on a given target. British doctrine provides a heavy machine gun battalion as the higher echelon for the Vickers, and also fits a Boys antitank rifle into each Vickers platoon. Full recognition of both direct and indirect fire is granted for offense and defense. As with us, the British use the rangefinder in determining fire data.

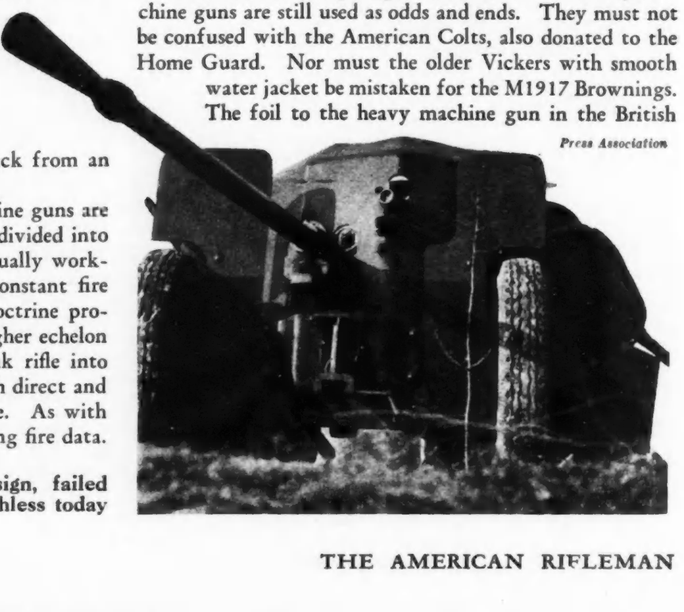
What the British will do with their heavy machine gun hold-over from the last war is a problem. If this war does go on for 5 to 8 years more, it may well be inadvisable for them to continue with present equipment. No predictions can be offered, but attention can be drawn to the Besa guns from Czechoslovakian Brno designs that now arm British tanks. These air-cooled weapons have been used by the Chinese with success, and have the necessary lightness and lack of water complications for all types of operations. Or it may be decided that the Bren will suffice as standard light machine gun.

At present, the Vickers is doing duty on new armored cars in the Middle East as an antiaircraft machine gun. Older armored cars and tanks mount it for normal use. Fifty-caliber versions may be found as AA guns in multiple mounts on Royal Navy warships.

A few of the old gas-operated British Colt heavy machine guns are still used as odds and ends. They must not be confused with the American Colts, also donated to the Home Guard. Nor must the older Vickers with smooth water jacket be mistaken for the M1917 Brownings.

The foil to the heavy machine gun in the British

Press Association

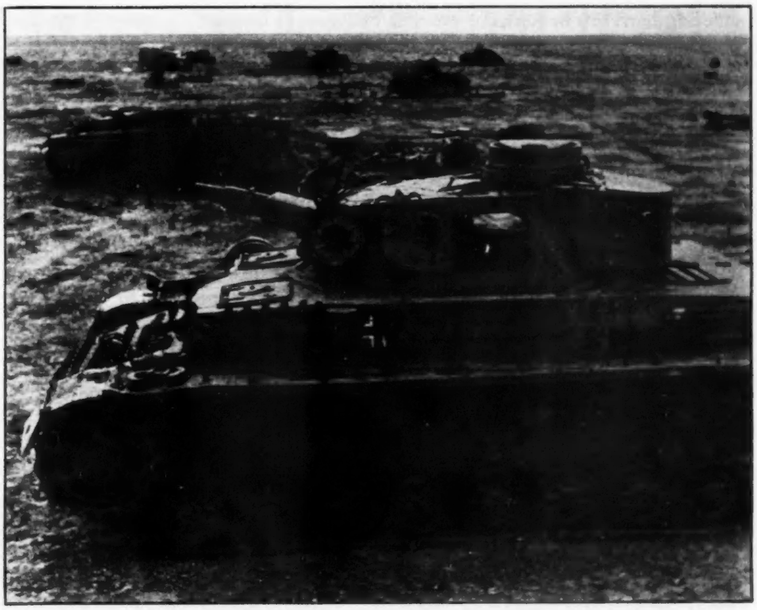


Hotchkiss 25-mm antitank, a French design, failed badly in Spanish Civil War, is almost worthless today

Army is the two-inch (50.7-mm) trench mortar. This is a decidedly less complex mortar than our 60-mm. It is used far forward in the infantry platoon to knock out machine gun nests with its 2-pound explosive shell, or to fog them up with smoke. As a smoke mortar, it is also fitted to tanks.

This British product has been supplemented in Africa by thousands of little 45-mm Italian Brixia mortars. This Model 1935 charm rests on a squat tripod, with a padded rest against which the gunner can cushion his chest. It weighs 33 pounds, and throws a .95-pound shell a maximum of 550 yards.

Persisting in the caliber of their original and justly famous Stokes of the last war, the British have improved the ballistics of their 3-inch (76.2-mm) trench mortar. However, only in appearance does it compare with the 81-mm Stokes-Brandt used by the U. S. and Russia, and with the German 81-mm Rheinmetall. With light shell it can range approximately 1500 yards. With heavy shell, the effective range is limited to 500 or 600 yards. The 120-pound mortar breaks down into three loads while the light 9.9-pound and heavy 13.2-pound shell are carried in cylindrical cartons.



These German tanks were stopped by British 25-pounders (below) in the Libyan Campaign. Tank in foreground is heavy Panzerkraftwagen Mark IV

It does not appear that the British have yet had time to absorb fully the results obtained by the Germans and Russians with large quantities of trench mortars used as forward artillery. They seem behind as well in another trench mortar development. Published accounts of Tobruk mention British annoyance with heavy German mortars of approximately 150-mm, but no announcement has yet been made to the effect that the British will follow the Nazis and the Russians in the rush to large caliber trench mortars.

The British also stick to their old Mills bomb grenade, pitchable by hand a distance of from 25 to 35 yards. A fragmentation type, this 1½-pound high explosive missile has a danger area of 20 yards in all directions. Large fragments may be dangerous up to 100 yards. Naturally these grenades are more dangerous to the user than the "offensive" or potato-masher type used by Germany, which contains only high explosive in a light can. The Mills grenade can be fired from a tromblon ("discharger") fitted to the end of a rifle. This obsolescent device gives ranges from 80 to 200 yards. Though dischargers are of value for range, they are unnecessary for safety when the 1¼-pound smoke grenade is used.

If the British feel that they are not precisely on top in trench-mortar development, they can pat themselves on the back for bringing out the Boys antitank rifle and standardizing it as early as 1937. At first this weapon met ridicule, for as a 36-pound, one-man antitank gun it could not hope to have much luck using its caliber .55 bullets against tanks even then in service. Its value lies in the recognition of the fact that the infantrymen in the platoon need a moral boost when in danger of attack by armored vehicles. More than that, the antitank rifle represents the maintenance of the idea of individual accomplishment—an idea so well carried out in both the British and American armies by the attention paid to the rifle and rifle shooting.

It would seem that the British Boys is inferior to the system now used by the Germans in their Model 1939 antitank rifle—one they swiped from the Poles when it proved its value in the defense of Poland against Nazi panzers. This Polish system does not call for a heavy bullet like the Boys or like that of our caliber .50 AT machine guns. Instead it uses the principles of superhigh velocity and tapering barrel to be noted in pre-war Halger and Gerlich sporting rifles. To build terrific punching power, the German M39 puts a caliber .50 size case behind a caliber 7.9-mm bullet, which is spun through the tapered barrel. British soldiers in the desert have found both Boys and M39 of value to men with plenty of guts. Antitank riflemen offer small targets, and can pick the vulnerable spots of enemy tanks: gun sight ports, commander's periscopes, drivers' bulletproof glass and so on. Once through light armor, the high velocity M39 is especially dangerous, for it has enough residual velocity to course about inside, wounding the crew even if it splits up into hot fragments on penetration.

While the Boys is not an unqualified success, the real lemon in the British arms orchard is the 40-mm Vickers antitank, called the two-pounder. In moving from designation of arms by caliber to labeling by weight of projectile, we have crossed the Jordan from Infantry into the Royal Artillery, which presides over antitank in Britain. Again Americans may wonder, this time at a method which calls a gun a two-pounder when the shell fired normally weighs 2.4-pounds. While admittedly a queer feature, this nomenclature is not the reason for the debacle of the two-pounder. As so often is the case with British arms, the real defect of the two-pounder is largely its poor design for production, coupled with the failure of the government to appropriate all necessary funds for antitank. As late as 1939, the British Army was going mad over the non-delivery of these 1936 weapons, and when the war came they were forced to go to France for the 25-mm Hotchkiss, and to Bofors for the Swedes' 37-mm piece. As stated by Lord Gort, the scarcity of antitank persisted right through the Battle of Flanders, and was one of the major reasons for the retreat ending in Dunkirk. Besides being hard to manufacture, the two-pounder is far too heavy, weighing 1848 pounds against 930 for our 37-mm. Worse, its velocity is below ours: 2700 to 2352 feet per second, resulting in very little gain for the increase in shell weight. Announced claims of penetration of 1½ inches of armor at 1000 yards are not borne out in the field. Good points the Vickers does have, and these concern the outriggers for all-around traverse (excellent in tank warfare), and the capacious shield, lately added to by the provision of screens on the side. By this arrangement, the gunner seated at left and his telescope are fully protected, and the loader is almost as safe as he feeds in rounds from the box attached to the rear right of the shield. The sergeant commanding crouches behind the gunner, and, grasping his shoulders, guides the gunner's telescope to the target by means of an open wire sight atop the shield over the telescope. Like all British guns, the two-pounder is rifled to the right, and so drifts to the right.

The 25-mm Hotchkiss is worthy of mention only because of its famous and singular failure to stop tanks in Spain. Produced and standardized in 1934, it is almost worthless today. It was one of the main reasons for the fall of France. The sight of its scalloped shield does not inspire confidence, for by now soldiers know that its light .916-pound projectile cannot carry explosive in its armor piercing form, nor can the shot get through armor of service medium tanks.

The crew of a Bofors 37-mm antitank gun prepares for action

With a very low silhouette and typical S-section shield and muzzle brake, the two-man light 814-pound Bofors is a better weapon. This has been in service in the Middle East where numbers of the German Rheinmetall 37-mm (the original of our 37) have also been picked up and turned on their former masters.

Of all the items of captured equipment, the British think that the Italian 20-mm Breda combination antitank antiaircraft has to date been most useful. A model of 1935, this gun saw wide service in Spain, and is a very sturdy, practical and producible light automatic cannon. As such, it fills a serious gap in British defense, for there is no light automatic cannon until the weight of the 40-mm Bofors is reached. The gunner has a seat, and a choice of a sight leaf and front barleycorn or else compensating sights set upon an arm. On the original Italian mount, he can get 360-degree traverse. Shells are supersensitive for aircraft, and come in clips of 20. As adopted by the British, the Breda may be used for ground defense, or mounted as the main armament of Marmon-Herrington armored cars. For AA protection of moving columns, it can be placed in trucks.

(Continued on page 23)

Mechanically Perfect SCOPE MOUNT

By WALTER F. ROPER

THE HELICAL WEDGE OR SCREW THREAD, properly called the Archimedes Spiral after the inventor, is without a doubt one of the greatest mechanical inventions of all time. It changed the entire method of mechanical construction by providing a removable fastening that has never been equalled. Is has, however, one shortcoming, for being a rotary wedge it tends to work loose under vibration. As a result we have check nuts, castellated nuts with cross cotter pins and many another scheme to prevent loosening.

One of the very worst places possible for a fastening having this characteristic is on a firearm, where discharge sets up not only a sudden longitudinal movement, but also a vibration that reaches every part of the gun. The loosening that is sure to result from this vibration is bad enough in those screws which have to do with holding the gun together, but when sights are held in place by means of screws we have a construction that is little short of absurd. Particularly is this true when we use them in connection with a fine quarter-minute adjustable telescope sight—supposedly an instrument of extreme accuracy. Yet even on the finest, highest priced scopes we still find the spiral wedge or screws used to keep the sight in accurate position on the barrel. The result is a variable zero and a constant chance that the position of the scope will change at any time through the ever present tendency of screws to loosen.

Putting it bluntly, a screw, regardless of the use of jamb or check nuts, which are simply more screws, is a poor fastening for a scope. It just isn't dependable. It seems strange that it should be necessary to make this statement at all in 1941, when over 25 years ago the need for a screw fastening in scope mountings was made unnecessary, and by a man who made no attempt to make money out of a method of fastening that does the job perfectly. The man who invented this perfect scope mounting was none other than Dr. F. W. Mann, the most noted rifle experimenter of all time.

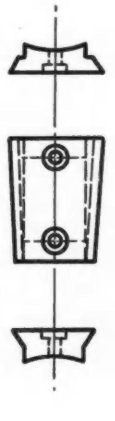
To Dr. Mann a thing that was wrong was intolerable. He could not tolerate sloppy mechanics, sloppy workmanship or sloppy ideas, and the thought of equipping a fine rifle with a costly scope sight and then attaching this fine glass to the rifle by the usual clamping or binding screw with its ever present tendency to jar loose and the consequent shift of position of the sight was simply not to be considered.

My first introduction to the Mann scope mounting was when I decided to fit a scope to a fine BSA rifle. Dr. Mann had selected it at the factory in England and brought it back for me. The scope chosen was the most popular of that time (1912) and as the good Doctor had offered to have the new sight mounted in his shop I took the glass to him with considerable pride. Judge my surprise when he said, in his high-pitched voice, "Yes, that is a nice little sight, but we won't use that five cent mounting!" Continuing, he added: "Why men who can make such a fine sight will spoil its value by any such undependable, unmechanical fastening is beyond me!" Then he showed me what I claim is still the only perfect scope mounting ever produced, though I doubt that one out of a thousand rifle shooters has ever even heard of it! The official name of the mounting, according to the patent specifications, is the Mann Taper Dovetail Mount. It is the simplest, most dependable and the most perfect bit of mechanical design possible to find. It does not depend upon screws at all; in fact there are no screws in it. It cannot come loose for recoil and vibration tend to make it fit more tightly. Because of its unique design it cannot take any position other than the one intended, no matter how many times the scope is taken off or put on.

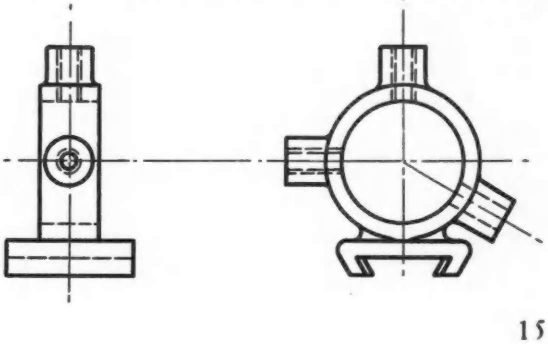
This mount uses two well known principles of mechanics in combination. The first of these is the wedge, and the second is the dovetail. The wedge is used to produce the locating and binding action desired, while the dovetail is used to assure unchanging vertical location. Combined they assure a single position both laterally and vertically, and due to the placing of the wedge, make the recoil of the gun maintain the tightness instead of causing loosening as with a screw fastening. That these results are produced in practice I can vouch for. I have rifles of many calibers, from .22 to .30-'06 equipped with these mounts, and have used them constantly for twenty-five years. Zero settings do not change and never has a scope shown the slightest looseness. The word "perfect" is almost too strong to use in connection with any mechanical device but I still know of no reason why it is not the proper word to describe the Mann Taper Dovetail Mount.

For those who like to know how a thing "works" the attached drawings and description will make the operation of the Mann Mount clear. For those who simply want results I suggest that they get someone who understands the matter of taper fits and can do a real job, to make them a set of these mounts and give their fine scope sights a chance to really show their stuff.

Now for the details. Let's look first at Figure 1, the taper block which is to be fastened to the barrel of the rifle by means of screws. These screws are, however, made

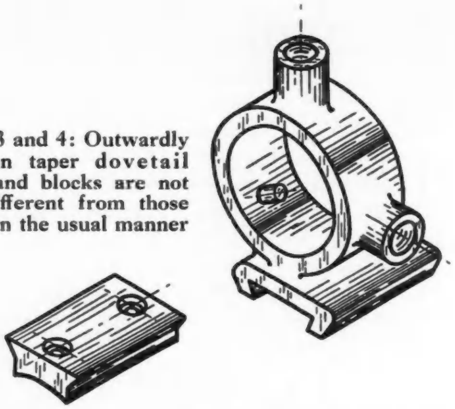


Figures 1 and 2: These drawings of Dr. Mann's patented taper-dovetail scope mounting system will give the ordinarily gifted amateur all the information he needs to fit these mounts to his own rifles and scopes



into solid fastenings and kept from loosening by having the metal of the block staked over into the slot after the screw is set up tight. The small end of these blocks is toward the breech of the rifle, so that the recoil serves to tighten the mount on the block. Now suppose Figure 2 is a wedge like Figure 1 in taper but with the taper on the inside, so that it will fit over Figure 1. Now, if we slip the mounts onto the blocks from the rear and slide them forward they will reach a position where the tapers fit together, also because these tapers are always in the same position in relation to the center line of the barrel, the mounts will always assume exactly the same position in relation to the bore. Recoil of the gun will simply tighten the blocks on the barrel into the scope mounts. This is the first principle used in the Mann mount. If it were not for the fact that maintenance of the vertical position of the scope was also necessary, these taper blocks would do the job nicely. Vertical locking is, however, equally necessary, so Dr. Mann added the dovetail principle to these taper blocks and obtained complete self locking and self locating in all directions. Figure 2 shows how the dovetail construction works out.

Figure 3 shows how the taper blocks look when the taper is also made dovetailed, and Figure 1 shows by the dotted lines that the top part of the blocks is undercut to form the dovetail. Now when the scope mounts are slipped onto the blocks attached to the barrel the tapers register and locate the scope in perfect alignment with the center line of the barrel. The dovetail locates the blocks at exactly the same position above the center of the bore every time the scope is put in place.



Figures 3 and 4: Outwardly the Mann taper dovetail mounts and blocks are not vastly different from those secured in the usual manner

In using rifles equipped with these blocks I slip the scope mounts into place, then give each one a little tap to seat it firmly onto the barrel block—usually with my pocket knife, which I always have with me. That's all there is to it. They fit and never come loose. When I have finished shooting I tap the blocks on the front end lightly and off they come and the scope is put away in its case with the knowledge that when replaced on the rifle it will be in exactly the same position as before. It is, of course, necessary that the tapers be neither too steep or too slight but that was determined by the mounter. For years I have used one scope on three different rifles, all fitted with these blocks, and the zero settings, once found, have remained unchanged! One was the BSA, another, a heavy barrel Stevens 44 and the third my Springfield target rifle using the .30-'06! Compared with most complicated, double back action clamping mounts, all of which finally depend upon a screw to produce the locking pressure and so are in just the condition best suited to working loose from recoil and vibration, these no-screw Mann Taper Dovetail Mounts are the most simple and most perfect it is possible to design!

RIFLES WANTED!

IN CONNECTION WITH the newspaper reports concerning the Army's efforts to obtain .30 caliber Springfield 1903 and Enfield 1917 rifles, the following information has been compiled as a guide for those intending to submit rifles.

Additions which have been made to the rifle such as special front and rear sights; 'scope blocks; special swivels; special butt plates; sporting stocks, etc., *should be removed by the owner* and retained by him before shipping the piece to the Ordnance Depot. Holes drilled for scope blocks or receiver sights should not be filled prior to shipment.

Owners will be reimbursed on a scale of prices based on a maximum of $47.65 for Springfields and $12.50 for Enfields of service pattern in excellent condition. Prices will be reduced according to condition; expected life of the weapon as indicated by wear; and amount of labor and material required to put rifle back into "as issued" condition (new stock, new sights, etc).

The following alterations will render a rifle *unacceptable:*

Model 1917 "Enfield"—*Rear sight* protective wings removed; *Front sight* stud milled off; *Receiver* lightened.

Both M. '17 and M. '03—*Barrel* turned down or shortened; *Receiver* altered in any way other than holes for sight screws; *Noticeable erosion* or corrosion inside or outside; *Rechambering* job for any cartridge other than .30-'06.

If otherwise satisfactory rifles will be *accepted* with the following alterations:

Model 1917 "Enfield"—*Front sight guards* removed; *Bolt* handle straightened; *Barrel* polished and reblued (but not altered); *Bolt* polished.

Model 1903 Springfield—Front or rear *sight removed; Barrel* polished and reblued (but not altered); *Bolt* polished

Both M. '17 and M. '03—*Barrel* drilled for sporting sight or scope blocks; *Receiver* drilled for sporting sight or scope; *Bolt handle* altered to clear scope; *Hand Guard* removed; *Sling Swivels* removed; * *Butt Plate* replaced by special types; * *Stock* converted to sporter or replaced by sporter stock; * Sporting or target sights added; * Scope mounts added (including scope blocks).

Rifles should be submitted to the Ordnance Officer at your nearest Army Post, or persons within driving distance of any of our arsenals may submit them to those points direct. The NRA is trying to work out a plan to more conveniently handle rifles for those members who do not live near an Army Post.

This move does not constitute a requisitioning of privately owned arms, nor is there any intention of attemping such a step. Sale of such rifles is purely at the discretion of the owner.

As we go to press, the Director of Civilian Marksmanship, Col. F. C. Endicott, is sending out to all civilian rifle clubs a letter reassuring in its promise of continued DCM activity. While .30 caliber rifles now on memorandum receipt with these clubs will be recalled, there is no indication that .22 Springfields are to be returned. No .30 caliber rifles should be shipped until instructions are received from the DCM.

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* All parts indicated should be removed before shipping.

DOG TOWN CELEBRATION

By Ralph C. Morton

"WHY NOT TAKE ME WITH YOU, Dad, on your next trip after Prairie Dogs?" When a son who will soon be eighteen wants to shoot, can any dad who is "nuts" about rifle shooting answer "No"? Well hardly. So it was arranged. First came the question of guns. What would we pick from the gun rack? For close shots and any snapshooting along the way we picked the Colt Woodsman. To George I allotted a custom-built Hi-side Winchester Hornet equipped with a 4X Malcolm scope. For myself I took my pet M1 Springfield altered to use the improved Lovell cartridge.

Four A. M. found us on our way. Silhouetted in the dim light of the impending dawn the great bluffs of the mighty Missouri appeared like giant mountains buried in the morning mists. Here and there an early bird chirped or the racking caw of a marauding crow came to us through the dim light of the approaching dawn.

The sun was just breaking through when we arrived at the "Dog Town". Only a couple of early risers were about to herald our approach. Possibly these dogs had not retired at all. Mayhap they were merely returning home after a call on a girl friend or an all-night session with some of the boys at the town club.

For those not familiar with Prairie Dogs I might digress to state that they are all "teetotalers" and no drinking is a part of their daily creed. However, like many of our politicians they talk a lot, run around a great deal but they seem to accomplish very little for the amount of energy expended. They congregate in towns and villages and during early morning the old ladies sit at the front door of their home or mound and exchange the neighborhood gossip with all who are in sound of their voices.

Upon arrival at the hunting ground my son expressed doubt about the situation being propitious for a successful shoot. However, he somehow failed to realize or appreciate the fact that his dad is a recognized authority on dogs, dog days, sun dogs and the doggone Prairie Dogs. My assurance that we would soon see plenty of sod poodles was soon confirmed for with the rising sun the town awakened as if to celebrate the 4th of July. They yipped and yelled, they scamped from house to house or mound to mound and they proceeded to tell all and sundry all about it. It was a glorious day and I recalled that it was only a short while ago as the years flow into the ocean of time that some ancestor of mine (together with George Washington, Ben Franklin and some of the lesser lights of the Congress) sat down and decreed that thereafter we should be free forever from British tea, Scotch Whiskey, Russian Caviar and Scandinavian Lutefisk. Verily them were the days.

While I meditated upon the wrongs suffered by our forefathers even before the prohibition period, a Prairie Dog not fifty yards away climbed on his mound and started an oration. I have endured many a 4th of July speech and even applauded at the close but when this fellow stated he was for Hitler, Mussolini and Hirohito that was enough for me. I picked up the Winchester Single Shot.

Now this gun is equipped with sturdy Malcolm mounts that stay put no matter how rough the handling. This "Hornet" has a super accurate Diller-lined No. 3 barrel and its scope mounts are never changed after it has been sighted in for a certain load. It holds its zero, but it is so sensitive to wind that I find it satisfactory only on calm days. In it I use the 45-grain Remington Soft Point bullet ahead of 11 grains of 2400, and if you connect it is guaranteed to remove the smile from any Prairie Dog's face.

Well, I drew a careful bead through the open sights on the saucy rascal, took a long breath, slowly touched her off. And what happened to the Prairie Dog? Nothing, much. The fact is I missed. George said very little. He is kindhearted and fully appreciated my discomfiture. It was one of those misses that will be the talk of the town for some years to come and no doubt long after I am gone future generations of Prairie Dogs will still search for "the point of impact" of that phenomenal miss. To add to my chagrin my son stepped out of the car and offhand at forty-five long paces killed that saucy poodle with one shot from the Colt Woodsman. Let us draw the curtain of silence and forego any attempts to alibi. The old man was bested even if, as I maintain, the Goddess of Luck took a hand.

Soon dogs to the right of us and dogs to the left of us "volleyed and thundered." Far up on a hillside my eight power Monocular disclosed a fat dog. He was two hundred or more yards away with a stiff breeze blowing. Hornet bullets become nervous or erratic in a breeze so here was a chance to teach my son that "pride goeth before a fall." This was my chance to get even.

". . . a prairie dog not fifty yards away started an oration. He stated he was for Hitler, Mussolini and Hirohito."

Handing him the heavy Hornet, I suggested he take that sod poodle like Grant took Vicksburg. After looking through the scope a bit he remarked, "I think I like that Lovell best and I'd like to use it today." There was no use trying to argue on the relative merits of a Hornet and a Lovell. With 18 grains of 4198 behind the Sisk-Neidner 55-grain bullet the Hornet load is no longer in the picture.

Equipped with a high class German scope of 4X with medium cross-hairs and for all-around shooting on the western prairies I have found it the most satisfactory combination I have tried for my personal use. The M1 Springfield has sufficient weight and balances in a way that I find to be to my liking. It seems less burdensome to carry than any of my heavy single shots and it is very handy to use when shooting either from a car window or carrying afield.

For standing shots I use the "hasty sling" hold when time will permit. However I adopt the sitting position when possible as I find it more conducive to accurate work. For general shooting in the prairie country the prone position does not appeal to me. High grass or brush often obscures the view. I am also disinclined toward exchanging my chewing gum with a rattlesnake and to lie down on a cactus is equally disconcerting.

Some years ago a pious friend of mine intent on a good shot at a prairie dog dropped prone into a bed of cactus. The reaction was instant, abrupt, speedy or what have you. He dropped his rifle, sprang to his feet and clutched wildly at his breast and stomach; then he clenched his fists, held them high and talked only to God.

So I learned caution, care, consideration and cuss words and all were suitably impressed to a point where I need never worry about forgetting.

Anyway, George took that Prairie Dog and spread him over a considerable part of the landscape. There was just a red flash and it was all over. From then on I inherited the Hornet while George hung to my pet and delighted in the long shots beyond the capacity of my Hornet to accomplish.

Hour after hour our rifles cracked. At times the barrels became too hot to hold. Ammunition dwindled and although many scores of dogs were made into coyote fodder they seemed as numerous as ever. Every time one was exploded there seemed to be two or three to take its place. As the hour of noon drew near we had fired nearly three hundred shots and with the thought of the reloading in mind I was willing to call it a day.

George, however, insisted on doing more work with the .22 Woodsman. Filling four magazines he strapped on his belt and holster and started through the town bent on further carnage. Long after our appointed leaving time he returned carrying a cottontail. "Gee, Dad", he exclaimed, "I ran into a bunch of cottontails down in a coulee but shooting Prairie Dogs left me only one shell in the last magazine and I got this rabbit with that one. If I had more cartridges I would have had that bunch of young cottontails."

Pointing to his newly acquired belt I answered, "You have forty of your belt loops filled with .22 soft points. Why didn't you use them?"

Let us not dwell on his discomfiture. It was keen and acute. He just forgot the reserve supply in that new belt but that didn't ease his disappointment. Anyway it gave me a loophole. If he tries to relate how I missed a Prairie Dog at forty-five yards I can always have a comeback regarding a chap who carries a belt full of ammunition and forgets he has it with him.

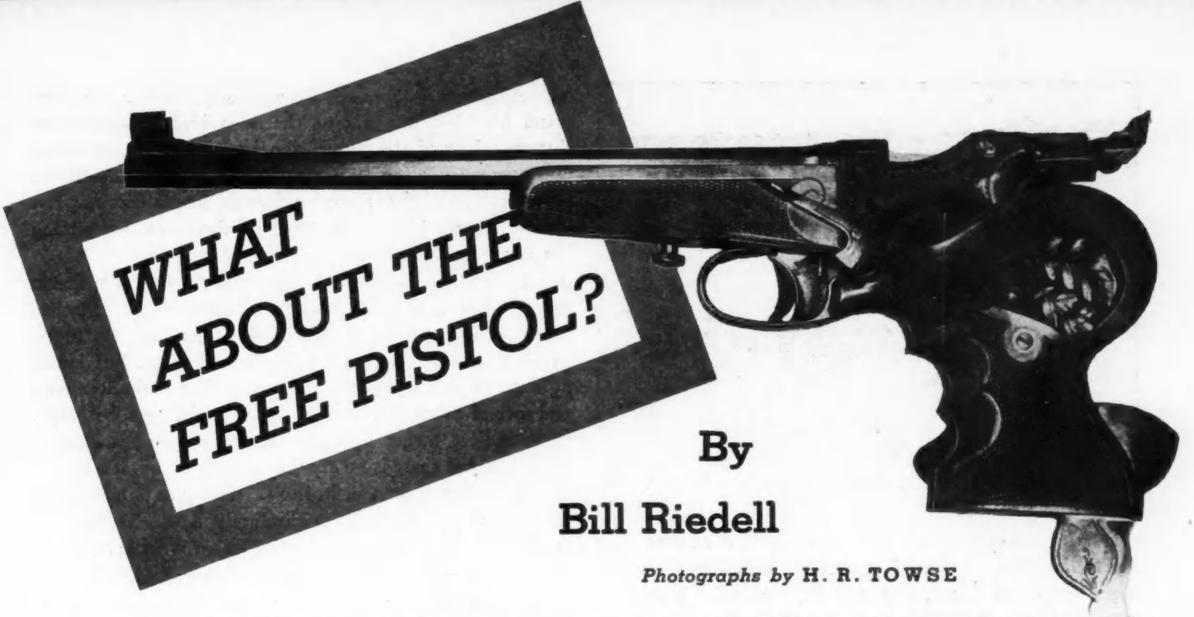
It has now become evident to me that if I am to hold my own in shooting against my sons I must get another Lovell or I shall be shooting with a "Model A" while they are up in the Packard class. As to the Prairie Dogs. Well, I have never heard a complaint when they are squarely hit by either a Hornet or Lovell.

LEGISLATION AND REGULATION

Federal Explosives Act: In general, handloaders seem to be having no difficulty in obtaining the twenty-five cent permits required under this law. In a few communities difficulties remain to be ironed out. An effort will be made at this session to amend the law so as to exempt small quantities of small arms smokeless powder. Members will be advised regarding progress of this effort by special bulletin or by announcement in the next issue of The Rifleman.

Property Requisitioning: Club Secretaries have already been advised by Special Bulletin concerning U. S. Senate Bill #2397, introduced by Senator Bilbo, of Mississippi. If passed by Congress, this Bill would amend the Property Requisitioning Act so as to remove the existing prohibition against the requisitioning of privately owned firearms. The Bill is now in the hands of the Senate Military Affairs Committee and there is no information as to whether or not the Committee will favorably consider the Bill. Members who are opposed to the Federal registration and requisitioning of privately owned firearms should communicate with their United States Senators at the Senate Office Building, Washington, D. C., indicating their disapproval of Senate 2397.

Junior Shooting in New York State: We are unofficially advised that a Bill introduced by Assemblyman Barrett to legalize small bore rifle shooting instruction of boys twelve years of age or older, when firing on a properly built range, under the supervision of a competent adult instructor, has now passed both branches of the Legislature at Albany and is awaiting action by Governor Lehman. It is hoped that the Governor will agree to the wisdom of legalizing instruction in the safe handling of firearms for the boys in New York State and approve this Bill. A final report will be made in our next issue.



WHAT ABOUT THE FREE PISTOL?

By Bill Riedell

Photographs by **H. R. TOWSE**

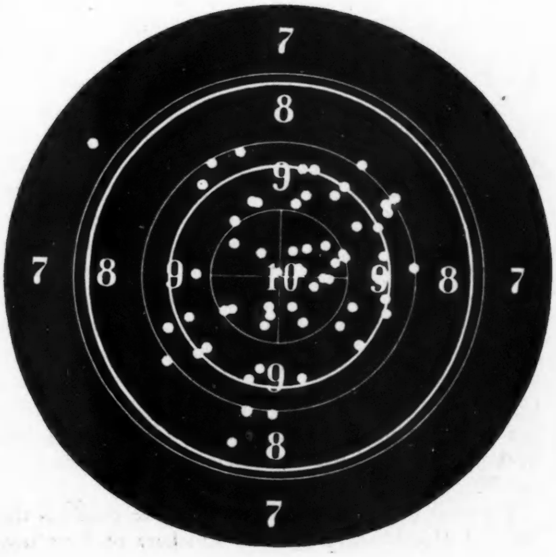
Back in "the old days" they said the Free Pistol was the bunk, was no good, was not practical, was not this, was not that and anyhow it wouldn't shoot. Back in the old days "they" were correct. The Free Pistol of that time was all it was cracked down to be and a little less. It compared in no respect with the pistols of standard American manufacture except that it was capable of improvement. Even the proponents of the Free Pistol admitted that it was not too successful, but except for a part of the North American continent no one conceded that it could not be made better and so the poor benighted European kept right on shooting it and improving it. Gradually the shooting began to improve as the gun began to shoot. Today only a few features remain to be added or corrected and the Free Pistol will be the nearest thing there is to the theoretically perfect pistol.

In the United States there were other reasons besides its faults for the lack of popular interest in the Free Pistol. In the first place it was not legal in 99.9% of our matches, in the second place it was very expensive and in the third place it could not be used for anything but target shooting and even that required protection from the wind. We stuck to our own single shot pistols and now there is a steady decrease in their use because the automatic will shoot practically as well on our targets. The rest of the world thought the possibilities of the Free Pistol worth developing and it appears that their opinions were correct, and scores have kept pace with improved designs.

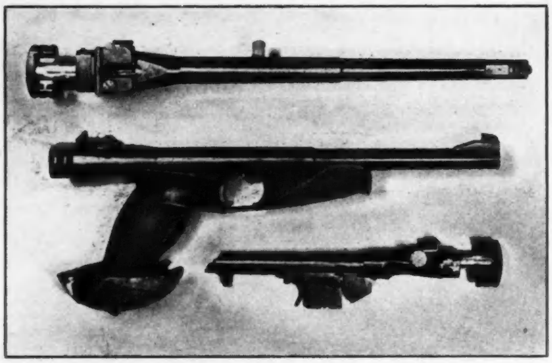
There have been developed two general types, one that might be termed the conventional, that evolved from the duelling pistol, and the other which in appearance and balance resembles the automatic pistol. Representative of the first type were the Perfekt and Tell models of Stotzer and Büchel respectively. The second was typified by the Arminius.

Despite a lack of standardization there were certain common features, some of which have been discontinued and others which have been kept and improved. The most common of these was the set-trigger and the common belief was that without set-triggers you had nothing but a gas pipe. The falling block action was used by all manufacturers of the conventional type pistol and puzzling finger hooks under the trigger guard added to the confusion caused by funny looking grips that strained your wrist. A long sighting radius was desired so fourteen-inch barrels became the rule with sixteen inchers not uncommon; all very gracefully tapered to about the diameter of a lead pencil at the muzzle. Another very common feature in the old days was sub-standard accuracy. Shooters such as Karl Frederick and John Dietz, who were willing to give the European pistol a trial, found that it was necessary to ask Harry Pope to make barrels for them before they could begin testing.

Today almost all of the faults have been remedied, the desirable features have been kept and the others eliminated. The set triggers now used are no longer set by pulling a second trigger but by pressing down a lever on the left-hand side of the action. This permits a more sensitive and somewhat faster set-trigger mechanism. The falling block action is still widely used but the most popular pistol uses



Composite of Ullman's world record 50 meter targets, fired in the 1936 Olympic Games. They total 559 X 600. Heavy lines indicate standard American scoring rings



Widmer's International Model. Above is top view with action open, and below, side view with grip removed

a Martini type of action. There are several reasons why the falling block action is so popular, including fast lock time, powerful mainspring and rigid barrel. However, even with the short lock time of such action the simple American action with shortened hammer fall is probably faster due to the loss of time in the set-trigger. Barrels nowadays seldom exceed twelve inches but the long sighting radius is retained by hanging the rear sight on a beam extending back over the hand.

The sights have followed the general trend and are adjustable by clicks for elevation and windage. An assortment of interchangeable front sights is supplied with each pistol and the rear sight is provided with appropriate notches. The only combination you will not get is the wide, Patridge type sight. Perhaps this is one of the points which still needs improvement. Barrel accuracy is now guaranteed, Martin claiming groups not larger than 17 mm. (.67 inches) outside dimensions at 50 meters and any of the others admit to their groups being less than 25 mm. (1 inch). Free pistols weigh about 2½ pounds but due to the balance point being at or near the trigger guard the gun feels lighter than it really is. This is a doubtful advantage, however, as muzzle heaviness is generally accepted by the experts, at least on this side of the ocean, as being essential to consistently good shooting. When the center of balance is at or to the rear of the trigger very wide shots are common, particularly if one should have a touch of the "buck" in an important match.

The grips have been subject to very radical changes, the most noticeable of which is the disappearance of the finger hooks from the trigger guard. The early pistols had grips that were at such an obtuse angle with the line of sight that a man had to be double jointed to aim them. In the new models the grip is at about the same angle as is common in this country. The idea of having the grip fit the hand, which is just becoming popular with the rank and file here, has reached such extremes in Europe that the grips are made to accommodate each finger and then to clamp the hand in place. Once one has put on a modern free pistol it is almost as hard to slip off as a glove. As you can see in the photographs, they look something like Buck Rogers' pistols but there are beds that are less comfortable.

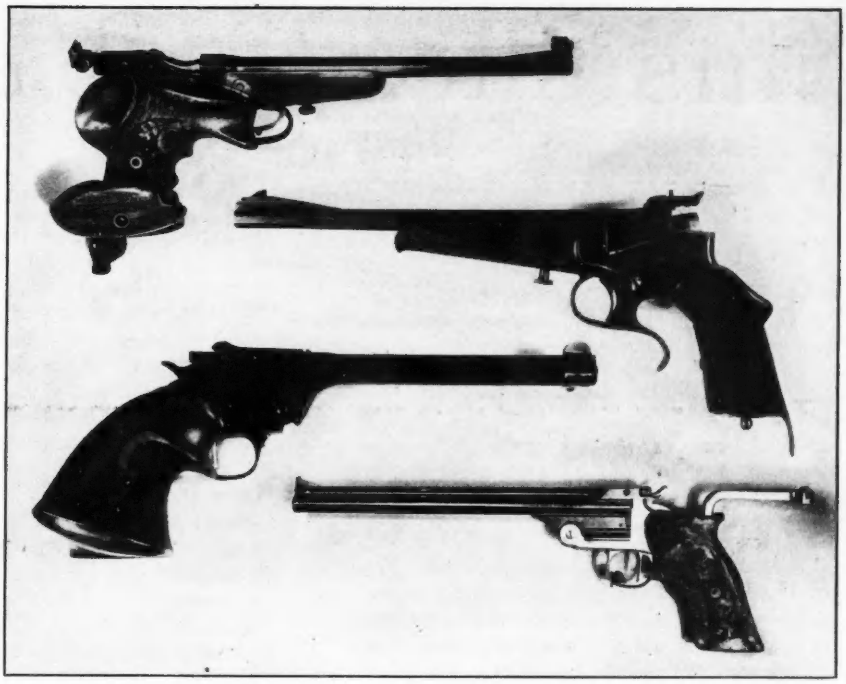
The most successful of the modern free pistols is the "Record Model" made by Udo Anschutz of Germany. The Anschutz is a relatively newcomer in the precision pistol field but has become the most highly regarded in Europe. It is of the conventional type but has all of the improvements so far devised including an adjustable screw projecting from the trigger so that the finger does not rest on the trigger but on the head of the screw permitting the finger to lie in its most comfortable position.

For years the conventional type had the field practically to itself but in 1935 C. Widmer of Switzerland, who had made an automatic type since 1931, designed his International Model. It is based on the automatic but incorporates all of the improvements that had been developed and several of his own design. This model is probably the most radical target pistol produced in the last decade. The fact that there is no carving or engraving on any part of it is a seventh wonder in itself. This gun is no adaptation of existing parts; it is absolutely new. There is no frame as we understand it, as the action is an interrupted thread bolt and is an extension of the barrel. There is no swinging hammer, but rather the plunger type firing pin common to all bolt actions. The barrel is much heavier than that usually found on free pistols but the balance is still incorrect. Due to the action being an extension of the barrel, it is possible to have the barrel practically resting on the hand in the theoretically ideal low position. The gun is loaded and the fired shell ejected through a port in the top of the action. The trigger mounting is quite interesting in that it allows the trigger to be moved forward or backward and to be swung from one side to the other so that it can be located in the position most suitable for each individual. The Widmer, however, does not seem to be as popular as the Anschutz, perhaps because the way of the innovator is hard.

Target shooting in Europe is in general of two types, the precision slow fire and the extreme rapid, defense fire. The precision slow fire is at the International free pistol target and is shot at 50 meters. This International target is probably the best slow fire target there is as it severely penalizes sloppy holding. It certainly is no target for the novice or for those who are not content with anything under 98. The black is 20 centimeters in diameter, practically the same as the 50-yard Standard American Target, but whereas in the Standard American black the lowest count is 8, on the International it is 7. The International target starts with a 5 centimeter (2-inch) ten-ring and each scoring ring thereafter is 5 centimeters larger, that is, the nine ring is 10 centimeters, the eight is 15 centimeters and so on. Experienced shooters agree that the average score on this target is about six points less than the same group on the Standard American except when the International score is above 90 at which point they generally approach one another more closely.

Matches are of 60 shots fired over a period of two hours. During the two hours and at any time before starting a record string of 10 shots, a total of 18 practice shots may be fired. However, once a record string has been started, it may not be interrupted. The idea is that the gun should be correctly sighted before a record score is shot. Since this is supposed to be precision shooting, the sense of the rule is evident; in other words, when a competitor loses he was beaten because the other man was the better shot and not because his sights were incorrectly set.

Since 1922 the scores shot at International meets have advanced very sharply. Previously a score of 520 was considered very fine and was good enough to win most matches. Since then the record has risen until in 1936 at the Olympic Games in Berlin, Ullman of Sweden set the present record of 559. A composite of his targets is shown in the accompanying illustrations. It will be noticed that he has no shots in the white, and there is but one in the Standard American 8 ring. Based on the Standard American count he averaged 97.5 over the 60-shot course. Remember this was at 50 meters, not 50 yards. This should put to rest any question as to the kind of shooting that can be done by those trained in the use of the free pistol.


Top to bottom: Anschutz, showing screw which is touched instead of trigger to fire; Tell free pistol; H. & R. USRA Model with hand fitting grips; Model of 1891 S. & W.

One of the interesting developments of recent years has been the advance of pistol shooting in Mexico and some of the South American republics. The International course is standard in these countries and their teams are equipped with the most modern of the European target pistols. While no medals were won by South American competitors in the 1936 Games, they were far from being last and in the daily practice were amongst the favorites, one of them consistently shooting 540 or better. In 1937 the Chilean championship was won by a score of 539. The Argentine and Brazil are not far behind, if they are behind at all.

There are a few false ideas about free pistol shooting that should be erased. Almost everyone when he first buys a free pistol mentally rubs his hands in gleeful anticipation of the scores he is going to shoot—nothing but tens from now on. The appointed day arrives, he trots it out to be admired by the gang, hangs a target, loads the gun, sets the trigger and says to himself "Careful now, this thing has a very light pull". The gun is at eye level, the sights lined up, the muzzle quivers a little and all of a sudden the pull becomes 100 pounds. He puts the gun down, grins embarrassedly at the gathering, faces the target again, puts the pistol up, his finger touches the trigger—Wham! a five. After completing his target he disgustedly looks over 3 or 4 tens, 1 or 2 nines, a few fours and perhaps even a miss. After practicing for a month or so he carefully wraps up his pretty new free pistol and takes down his old .41 cap and ball and is happy again. It takes as much time to learn to shoot the free pistol as it does any other gun.

There are several schools of thought on the proper way to operate the trigger. One group favors a continual tapping such as is used by many Scheutzen rifle shooters, while a second advocates pressing the trigger forward until the hold is right, then relaxing the pressure and depending on the natural contraction of the finger to pull the trigger. The third group squeezes the trigger as is standard practice in this country. This latter method seems to be the most satisfactory, particularly for those used to standard American pistols with normal pulls.

A large number of European shooters still strain every muscle they own in the effort to hold the gun steady but our relaxed stance is gaining in favor and many of the best shots use the American style.

Many have the belief that continued use of the free pistol will affect ability to shoot the old favorites. This idea is not borne out by anyone who has done much free pistol shooting. The winner of the slow fire match in Berlin was third in the rapid fire "Defense" match. The old timer who said "the only thing that hurts shooting is *not shooting*" is still correct 99 per cent of the time.

Due to their expense it is doubtful that the free pistol will ever be very common in the United States but for those who are interested in precision shooting and for those who can bear up if their score is less than 99, the free pistol and the International target are especially recommended. The free pistol is no panacea for trigger jerkers, flinchers or blaze-awayers. There is no guarantee that it will raise averages. Indeed it will not unless you work as hard with it as with the pistol you first learned to shoot. If we are to win any honor in International competition, however, we will have to learn to shoot better than we are doing with our present equipment or try different equipment.

this shootin bizness

By Bill Lewis

Booneville, Kentucky
November 30, 1941

Dear nephew Bill

Saw yore paw the other day an he give me yore address an said that to rite you about makin up sumthin for the pigeon creek valley farmers and storekeepers spring git-together. He said you been puttin on pistol shootin matches up ther in new jersey and folks come from all over to git in em and that he had a rite good time down to one in lower marian, pa. He says the folks ther talk almost like us. They dont talk dutch atal. Me and yore aunt ephie was talkin about it last nite and she says she bet he shore was whoopin it up when he was ther for everybody knows them folks up thataway is pennsylvania dutch and dont talk like us folks.

Well what i thot was we could have a shootin match an i mean a nice naborly kind of one. Not them kind with the sherif comin in bout the end and spoilin the fun. An give out some pretties for the boys to take home, them that wins. Course yore aunt eph dont agree and says a good country smoke hams and such would be best. She wants to make another one of them pecan pies i guess but i figgered some kind of doo dabs to use for watch fobs an such. Yore paw says you know a feller makes some rite good ones. Course we dont want real gold ones but some like the kind you give out.

Now bout the guns most of the boys got guns of some kind or other but i decided we caint let the shotguns in with the rifles and pistol guns cause it would be a mess tellin who got first and we dont want no trouble if it can be helped. Theys some who aint much for lettin in the rifles with the pistols but i say they shoot about the same size ball so let er go and durn them that dont like it. Yore paw said maybe hed shoot that forty-five army gun you give him when you was supply sargent in the army if he could borry shells and they wasnt no guvment men there. Hes mighty proud of that pistol gun Bill and says you must of spent a lot for it and saved a long spell on acount you didnt get much pay then. Yore aunt eph says that gun and yore paws quick temper is goin to make a old maid of yore sister.

You better rite me when you git time and tell me about this shootin bizness and aunt eph says tell you it shore does her heart good to see you gitting along alrite; gess thats on acount of what they used to say about you when you was a nipper back home here. I always said it was a lot of fool talk cause youd take as good care of youre neck as the rest of the men folks in the famly and aint none of them ever been hung yit. It shore seems funny to have a law man in the famly.

Dont fergit to rite

Uncle Buford.

Trenton, New Jersey
December 19, 1941

Dear Uncle Buford:

Your letter came this morning and after noting the date of November 30th I wondered if the trains had stopped running from the home town—then I saw your memoranda on the back of the envelope and believe I understand the situation. If you have mislaid something I have it and it reads as follows:

10 bushels seed corn
1 plow share
1 can baking powder
1 Slone's liniment
4 catalogues, soft paper
1 lb. rock candy
see Jake Klingschmidt about corn W.
peppermints

I am sorry to learn that you have your usual winter cold. I suppose Aunt Ephie still stands by her goose-grease and kerosene—molasses mixture.

You may be certain that I am always glad to help you in any way possible and I am glad to learn that you have decided to have some shooting events at the Pigeon Creek Valley Farmers and Storekeepers Spring Outing. We have a great many pistol and rifle tournaments here in the East and they are well attended. Your decision to segregate the shotguns, rifles and pistols is a smart idea and may do a great deal to promote harmony and make your share of the program a success. If I were you I would even go farther and let the pistol shooters have an event separate from that of the riflemen, for there is always the likelihood that some out of town smart aleck will claim that it isn't fair.

However, there are some other points about promoting pistol and rifle shooting that I think you ought to be told and as long as you are in the family I know I need not hesitate to tell you the truth.

Running a pistol or rifle tournament is like entertaining the WCTU, First Baptist Church's Ladies Auxiliary, the American Legion and Licensed Liquor Dealers Association in one sitting. Everyone wants something different from what you have scheduled and spend most of their time watching the other fellow for something to squawk about. The range selected is always lousy, the weather worse, the officials unfair, pit detail useless, and who told them they know anything about running matches. The losers have always been robbed and won't

.come back again—until the next match.

The chump who gets the idea that he can put over a successful tournament soon learns that he must start wooing the press representatives three months before the event, always buy the drinks, and practically propose marriage to the local press in order to get an inch next to the obituary column. Any effort to get radio mention is worthless unless you are in a position to positively inform the commentator where he spent that weekend with that blonde when his wife thought he was twenty five miles off the Jersey coast tossing bait to the tuna. Sponsors is a subject that I will not go into as they are practically extinct and you would probably waste a lot of time looking for one.

The prizes are never right the first trip down from the factory and the first shipment of medals received are usually for the most agile contestants in a potato race being held at the First Ward Independent Voter's Club Annual Outing and Clam Bake, Haffengerg's Grove, Rain or Shine. And when you have presented your medals the winners may often be seen off on the side lines discreetly biting their awards—not that they question the gold content—they're in their second childhood and teething. Then there's the matter of protests to settle after the matches but a vigorous man of your temperament wouldn't be interested in that. Little items like managing to pay for the C.O.D. shipment of targets will annoy you to some extent but most of the competitors can be induced to loan small amounts under the guise of registration fees in advance which is one reason why a match may not start on time. I wouldn't advise you to appoint yourself chief range officer or judge or anything like that; some of the boys have an unpleasant habit of making nasty cracks about your honesty and will even comment on your ancestor's morals if you work the full day. The way to avoid that is to write to your out-of-town friends and get them to come over and help you for the day—they will generally forgive you before the next match and if not most of them will give in if your official armbands are brightly colored and have nice attractive titles on them. I know, Uncle Buford.

I think you ought to know now that the promoter is always in the dog-house at home—misses dinner six nights a week and never has a good alibi—at least they won't work. Then to quiet the little woman he paints a pretty picture of her winning the ladies match and bringing home a lovely gold medal; some dopes even bring the medal home and display it to strengthen their story. On the day of the match it is won by some charming maid in the latest mode of playsuit and the storm and strife finishes last in a field of forty-five—it's a plot and you knew all along who would win and did you have to spend two hours after the matches congratulating her.

If the foregoing confuses you, or you are discouraged after reading this letter go ahead just the same. I can send you the name of a fellow down in Washington who will help you out and if you can hold off the matches until my vacation in June I will be glad to help you. My very best and love to Aunt Ephie.

Your dutiful nephew,

BILL.

P. S.—Tell Pop to keep that .45 in the house or stop telling people I was a supply sergeant in the Army. With two kids, a mortgage and taxes the way they are I have trouble enough already.

BRITISH LION AT BAY

(Continued from page 14)

As a matter of fact, in the African desert all the above antitank are now usually mounted in vehicles. When opposing the heavier German tanks like the Panzerkraftwagen IV (22 tons), or the PzKw III (18 tons), their effective range is so limited as to permit them only the opportunity for ambush when the tanks are on them. If the ambush fails to drive off or destroy the enemy, the guns and crews will be run over and crushed. Present crews, therefore, prefer to fire right from the truck.

Quick to learn, the British have sought a solution to the antitank problem with a 57-mm six-pounder, which is reputed to have received its baptism of fire in Greece. This large, squat 2700-pound piece still looks British, but in sending a six-pound shell packing at 2352 feet per second it has scored one on us. It has even scored one on the enemy, for it outclasses the new German 50-mm which was introduced in the Balkans last year. We shall undoubtedly adopt the gun to supplement our 37. We have taken it for our tanks.

As the British do not yet officially admit to the doctrine of artillery especially designed for close infantry support, the next arms item is the basic weapon of the Infantry-Artillery team: the 25-pounder gun-howitzer.

Americans find the 25-pounder strange because the British stick in this piece to the single, or box trail. To get traverse, they place a ring on the ground under the wheels the width of the axle. The gun carriage pivots on the ring's center. By picking up the trail spade, the gun can be traversed through a complete circle, the wheels running on the edge of the ring. Many artillerymen hold this method fallacious, for once the trail spade has been pulled out and reset, the gun really has to be relaid—in degrees and minutes, of course. That this arrangement is not entirely satisfactory to all is evidenced by a 25-pounder at Tobruk, which the local boys had fitted with a split trail.

Twenty-five pounders are of two types: the earlier, with slightly curving shield and strong resemblance to the 18-pounder; and the later production job with capacious straight shield and a falling breechblock. These guns are very popular with our cousins, and have dealt successfully with tanks. That does not mean that they are ideal antitank weapons, for in Africa they must decamp when rushing tanks reach 6000 yards. For rapid evacuation of such difficult positions, they may be porteé, or—in English—truck borne. Generally, they are towed behind their caisson by a special military truck called a "quad." British Army men have discovered that adapted commercial vehicles fail in durability, and so they consider this special tractor job a dream. (*To be concluded.*)

WAR AND WILDLIFE

AMERICA'S HERITAGE OF AN ABUNDANT WILDLIFE SUPPLY WAS IN DANGER UNTIL AL DAY STEPPED INTO THE PICTURE . . .

Fish and Wildlife Service

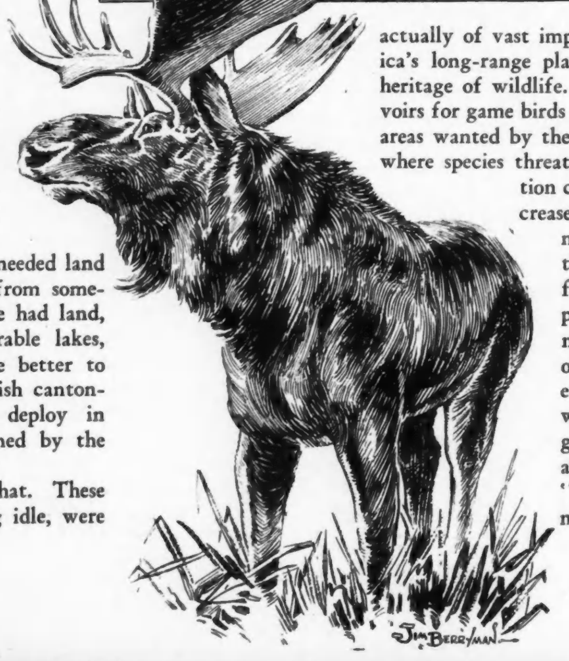
Nature Magazine

By Wallace Taber

"CONSERVATION," SAID PRESIDENT ROOSEVELT, this was Teddy, "Conservation is not flagrant hoarding but wise use. No better investment, no better insurance exists for the future of America."

Today we wonder if Teddy's "future" has not arrived. And yet to many conservationists it has seemed that the arrival was ill-timed. At least, that was the feeling a year or so ago, for the military requirements of the nation must be foremost. The Army was expanding toward the present goal of 3½-million men. And the Army needed land for maneuvers, for cantonments, for training, for artillery ranges, for landing fields, for battle practice in blitz fashion. The Army needed land and more land, and it had to come from somewhere. The Fish and Wildlife Service had land, thousands of acres of land, innumerable lakes, swamps, marshes and forests. Where better to find land then, where better to establish cantonments, fire guns, race tanks and deploy in maneuvers than on land already owned by the Federal Government.

Of course it was not so easy as all that. These lands, though to all appearances lying idle, were actually of vast importance in America's long-range plan to preserve her heritage of wildlife. Acting as reservoirs for game birds and animals, those areas wanted by the Army were spots where species threatened with extinction could range and increase without fear of man. Here were the last of our buffalo, our few trumpeter swans, remnants of a dozen other species all but extinct. Here too were vital breeding grounds of ducks and geese and "rest" areas for migrating birds.



What the Army wanted to take over were our sanctuaries, refuges, wildlife breeding areas annually supplying an army of 8 million sportsmen with their favorite sport.

Sportsmen are funny people. They want to win the war thumbs up, but they also want to keep right on conserving those last few trumpeter swans, that handful of desert big horns, that last remaining remnant of the once plentiful buffalo. They want to help, but they want also to make sure that their favorite sport will be waiting for them when they return from the open season on Japs.

Sportsmen worried over the attitude that was expressed in some circles this way—What were a few rabbits more or less, mountain sheep, a herd of elk or a covey of quail, why bother about a rare but useless bird when the very existence of the entire country and even of man himself was at stake?

Although the Army was sympathetic and willing to cooperate, their every move had been confronted with bundles of complaints. Plant Protective Societies, Lighter Line Leagues, Wilderness Advocates, Rod and Gun enthusiasts had gone on record as opposed until the War Department winced at the mere mention of conservation. To them conservation became synonymous with screwball.

Fish and Wildlife Service

But fortunately a way has been found, nevertheless, to declare dividends on the years of wildlife conservation that Teddy inaugurated. There is a way and it was in actual operation long before the Japs approached Pearl Harbor. It was the night of December 7, 1940. . . .

Former U. S. Senator Frederic C. Walcott, President of The American Wildlife Institute, was addressing the Maryland State Game and Fish Protective Association. After pointing out the necessity for warships, tanks and airplanes to make America defensively the strongest nation in the world, Walcott concluded, "A battleship, or a plane, or a tank will ultimately become obsolete. A forest, or a good soil, or a useful bird, never outlives its usefulness if it is properly used and administered.

"Scientists have devised substitutes for practically all mineral resources, but no scientist has yet been able to devise a workable substitute for soil or water. No man alive has yet managed to create an ersatz duck or quail or rabbit, or developed a substitute for a tree.

"I can suggest only one plan which is big enough, comprehensive enough and effective enough to safeguard our resources at this time. We have a National Defense Advisory Commission, which advises those charged with administering our defense program. I suggest a similar Federal commission to advise in the defense administration of our natural resources. I suggest a National Advisory Board for Conservation."

Shortly afterwards Secretary Ickes announced the appointment of Albert M. Day as diplomatic go-between for the Fish and Wildlife Service, the Army and the Navy.

Al Day, as he is known to a whole host of friends, is a rather portly apple-cheeked gentleman with straw-brown hair that continually gets into his face and has to be brushed aside with a sweep of the hand. Officially, in addition to his new office of Liaison Officer, he is Division Chief for Federal Aid in Wildlife Restoration; unofficially he is a first-rate hunter, angler and active member of the Izaak Walton League.

Fish and Wildlife Service

Fish and Wildlife Service

Signal Corps

Al Day automatically found himself engulfed in a maelstrom of dispute. Masterful diplomacy, however, soon erased previous conflicts with would-be obstructionists. Sincere diplomacy, too, for Liaison Officer Day was an easy-to-talk-with ordinary American, with perhaps just a bit more than his rightful share of tact and finesse. Then, too, not a few of the "gold braids" and "brass buttons" were actually sportsmen beneath it all.

A small and seemingly insignificant body of water known as Henry's Lake provided the setting for one of the early controversies. By priority the lake belonged to the handful of trumpeter swans that used it as a midway resting area during flights from Yellowstone to Red Rock Lakes. By process of elimination the lake and its surrounding area would soon belong to the Army for winter maneuvers. Thus arose serious question as to the devastating effects that heavy artillery fire might have on the 211 remaining vagabond giants-among-waterfowl.

Day's investigation revealed that Henry's Lake had been chosen from among several possible sites. After full presentation of the facts, the Army turned its attention to another area where rare and beauteous swans were not on the verge of extinction.

Other complications loomed in Alaska. The Army Air Corps at Anchorage needed bombing areas and firing ranges. Inland from the island home of the gigantic Kodiak grizzly lay the Kenai Peninsula, dwarfed by its expansive counterpart across historic Cook Inlet. Kenai has long been known to the sporting world as a favorite moose calving area. Into this vast wilderness "waste" of public domain the Army Air Corps intended to drop bombs, practice ground strafing and roar in super-blitz fashion. Already the executive order had been entered with the Land Office to make Kenai Peninsula an Army bombing area.

Ironically and equally as fortunate the Fish and Wildlife Service likewise had an executive order in the Land Office requesting the same peninsula as a refuge for preserving the giant Alaskan moose. The Army's demands were unquestionably more vital.

"Across Cook Inlet extending from Beluga River on the north to Harriet Point on the south is an excellent bombing site," argued Al Day with visiting Frank Dufresne, Executive Officer of the Alaskan Game Commission, to back him. "Not only is this area as near Anchorage as the Kenai, but it also provides far better harbor facilities. At the same time the valuable wildlife area will be spared."

Today Kenai Peninsula is an established game range, while across the icy straits bombardiers loose their mighty missiles and machine gunners center their sights on military training objectives.

Instances of such cooperation are legion. In some instances alternative areas are not readily available. Oft'times it is necessary that parts of the extensive refuge system inaugurated by former Biological Survey Chief, "Ding" Darling, be sacrificed to the more pressing needs of a nation at war. Already more than 700,000 acres have been removed from the refuge system and turned over to the War Department for the duration. In all instances the boundaries have been so adjusted that the more vital parts of the refuges are spared the devastating effects of wasteful warfare.

From the Nevada big game refuge more than 400,000 acres have been released to the Army Air Corps for bombing areas. In Arizona another 161,000 acres, in California's Salton Sea, 320 acres for an emergency seaplane landing field, in South Carolina the entire Sandhills Wildlife Refuge of 40,000 acres, in Oklahoma, 9,000 acres of the Salt Plains, in Alaska, Alabama, Florida, Georgia and a whole host of other states acreage has been relinquished for training troops to stem the tide of aggression.

As would be expected where wildlife concentration areas are turned into biting infernos of screaming steel and blasting artillery, driving tanks and charging infantry there are problems arising. Ironically enough some of the resulting effects are proving more than amicable to the wildlife. Take the 40,000 acres of Sandhill in South Carolina. This submarginal land recently retired by the resettlement program for a rest period out of crops and into game production constituted a Fish and Wildlife Service refuge. A recent report from the game manager in charge tells how more than 100,000 men with innumerable airplanes, constant gunfire, thundering tanks and all sorts of maneuvering result in a raucous din.

"In spite of it all," says the manager, "wood ducks are unaffected. Doves coo as normally as ever. Predators prey as usual, coveys of quail are momentarily scattered but soon reform in heavier brush, while deer merely move into the branches."

Fires inadvertently started are expertly handled by army personnel. And, in the opinion of the manager, the fires, in addition to constant tank tactics which bowl over and thin out the thick maze of scrub, post and blackjack oak, are actually increasing the supply of game foods. In addition, the breaking of the soil and the burial of garbage from the large cantonments should more than enliven the tired, wornout soil!

At Fort Bragg, long a military reserve under a commanding officer who protected wildlife, deer are to be found in as great abundance as at any other spot in the South. The concentration averages about one animal per 25 acres throughout the entire 110,000 acre reserve. Fortunately this area is included in a Pittman-Robertson research project, and the biologist in charge reveals that upwards of 65,000 officers and men have deployed in maneuvers there at one time. Crisscrossing roads jigsaw the entire area, with dashing tanks, jeeps, motorcycles and trucks constantly on the run. Light and heavy artillery blast at the "enemy" incessantly, yet "the deer continue browsing with bland unconcern." The biologist reported deer feeding as usual within 100 yards of a battery of 75-mm. guns, and tracks in the dust betrayed other animal activities almost before the smoke cleared.

In spite of the seeming smoothness, however, there are a carload of headaches in every "amicable" agreement. Take the Tularosa Malapais Basin, that desolate, boulder-strewn lava flow just north of the White Sands National Monument in New Mexico. Because of its strategic location midway between the Fort Bliss and Albuquerque base, the Army sought it for bombardment practice.

"We didn't see how anybody could question the use of that inaccessible wasteland," Army officials said. Nevertheless, the author recently discovered that letters had gone to the War Department advising that the area be preserved in its present state sans bombing.

Although roadless, without human habitation, entirely unfit for grazing and out of the question for agriculture, it seems that Nature had worked miracles on the rodent population of the black lava flows. Strangely enough, their pelage has effected a rather questionably darker color phase from that found on their brothers and cousins living on the adjoining white sands area. Or, perhaps it's vice versa, with the sand-inhabiting rodents having become lighter in color. Regardless, scientists attribute this darker colored pelage to environmental influence, and find its study fascinating if not profitable.

Whether or not the bombing would have caused the wood and kangaroo rats, the pocket and grasshopper mice to fade white from nervous prostration was not revealed in the letter. The author learns that a compromise was arranged. Even so, this is a good example of what not to do if you want to remain popular with practical conservationists and the War Department.

If you must register complaint for some wrong occasioned by the deployment of war maneuvers in your favorite haunts, contact Al Day. He listens with profound sympathy to all pet gripes. Chances are he'll give it deep consideration, providing it's not just another would-be obstructionist sounding off for attention.

Naturally all of us want to keep America a land worth defending, but first, we want to keep America, period.

Nature Magazine

A .276 PEDERSEN SPORTER

By Capt. Brudge Kyle

Major Hatcher's excellent description and comparison of the .276 cartridge, and his story of the then new .276 Pedersen semi-automatic rifle in the March 1932 Rifleman, aroused an interest which I decided could only be settled by obtaining a rifle for this cartridge, one way or another.

Dimensions showed the bullet to be the same diameter as the standard 7-mm. Mauser. This left nothing to do but submit a sufficient number of cartridges to my gunsmith so he could obtain proper dimensions for a chambering reamer. After so long a time I finally obtained enough ammunition from Ordnance to have this done. Accordingly I got in touch with Sukalle of Phoenix, Arizona. Sukalle agreed to undertake the job.

After the usual time had elapsed, and a certain amount of correspondence, barrel and action arrived. It looked good, and I could hardly wait to stock it and see what it would do. I used a Redfield hunting-type receiver sight and a flat-face 1/16-inch gold bead in front.

The ballistics of this little cartridge, from Major Hatcher's article, seemed to classify it as capable of doing everything the .250 Savage or .257 Roberts would do, only better, due to the excellent design of both case and projectile. I will not attempt to make a direct comparison of these rifles—the data is available on all and they can be compared. Neither do I have the facilities of a chronograph to tell the exact muzzle velocity developed. On the basis of pure f.p.s. there are lots of the Super-Duper small bores which will do better, but I believe the bullet design, case and weight of projectile gives it something out at the longer ranges, 400 to 800 yards, which similar cartridges do not have. As stated in Major Hatcher's article this cartridge is comparable with the .30-'06, without the excessive recoil and breech pressure.

Due to the limited time available, I have done very little toward continuing my experiments with this caliber and rifle. Most of the firing has been done by myself and a friend, about 600 rounds in all. Time, facilities and conditions have not permitted bench-rest tests. The most serious shooting was one afternoon when we fired 200 rounds. The light was variable, also the wind. We did not use a sling, and fired only from the sitting and prone positions. Groups were in 10- and 20-shot strings.

Average 100-yd. groups 3⅛" x 4⅝" (6-in. bull)
Average 200-yd. groups 5½" x 5½" (8-in. bull)
Best group 100-yd. was 3" x 3"

This does not indicate unusual accuracy. However, it was better than either of us could do offhand with our other rifles. The normal groups were tight and those shots that were not in close were traceable to our own errors. We did not change sight adjustments in going from 100 to 200 yards. The recoil was very mild and it was a very pleasant rifle to shoot. Firing forty rounds or more in an afternoon is not noticeable. The barrel kept clean, there was no fouling and no apparent trace of erosion. Cleaning was easy. As to penetration, it will go through ⅜-inch of mild steel with no trouble, or fourteen inches of bodark, a dense wood of this section.

The projectile weighs 125 grains and is really a beautifully designed bullet, very similar in appearance to our famous 172-grain M1 boattail. The case, too, is different from any other typical hi-velocity case. It has a sharp taper from base to shoulder. It is not a necked-down case from anything else, but is individually designed for the projectile.

For those who do not have a copy of the Rifleman for March, 1932, I repeat the gist of this article in its comparison with the 172-grain M1

	M1 .30- 06	*.276 Pedersen*
Powder	45-grains	30
F.P.S.	2653	2700
Wgh. Proj.	172	125
Recoil	14½ ft. lbs.	6½

Height of trajectory the same at battle ranges up to 1000-yards.
Shock power is as great as the .30-172 at battle ranges.
Overall length of cartridge ½" shorter than the .30-'06.
Comparison of heating power is: the .276 can be fired 500 times, to 200 shots for .30-'06.
Thrust on head of the bolt from breech pressure is much less than the .30-'06.

The above are generalities taken from Major Hatcher's article in the issue of the Rifleman as indicated.

Details of barrel

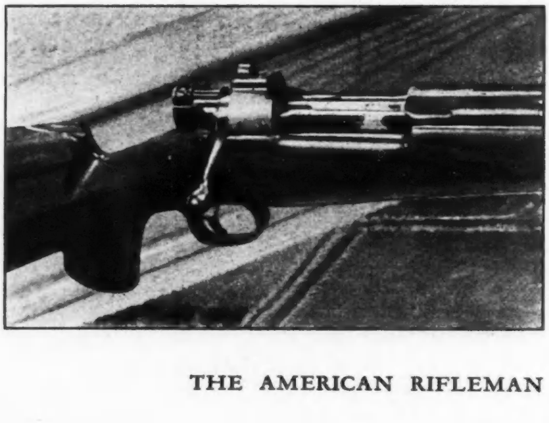
24" long
1 5/16 diameter at receiver
.600 at muzzle
diameter of bore .276

Rate of twist 1 in 9
Depth of rifling .0045
Width of lands .070

The ballistics and characteristics in comparison with other similar cartridges greatly favors the cartridge as well balanced, long range, of sufficient weight, adapted to short actions, and having a long life.

While it is apparent the Army for the present has dropped its experiments, sufficient proofs and tests certainly have left good evidence of its possibilities for the future. To the best of my knowledge I have the only individual rifle built for this cartridge.

A one and only: Captain Kyle's .276 Pedersen rifle with Springfield action and barrel by Sukalle



THE CARTRIDGE . . .

Its History and Evolution

CONCLUSION

By Charles T. Haven

At the end of the Civil War, the Government began to cast about for a good breech-loading system for the service arm of the Infantry, and a satisfactory cartridge to use with it. After considerable experimenting with conversions of the model of 1855 muzzle-loaders to take .58 caliber rim- and center-fire cartridges, the Ordnance Board finally settled on a .50 caliber breech-loader issued as the model of 1866. Its cartridge was a .50 caliber center-fire case loaded with a charge of 70 grains of black powder and a 450-grain conical bullet.

The .50-70 case, and also some of the .45-70 cases that followed it, were made in the type called the folded-head cartridge or the center-fire cartridge with inside primer. The case was formed by upsetting a rim on a thin copper tube, much as a rim-fire case was made, but an inner cup-shaped head, with a depression in the center holding the priming compound, was pressed into the case and held there by two grooves in the sides a short distance below the rim. The firing pin struck the center of the head of the case, and driving in the soft copper of the head, exploded the priming against the backing of the cup, which was pierced to allow the fire to reach the powder. The case was not reloadable but it was gas-tight and reasonably free from misfires.

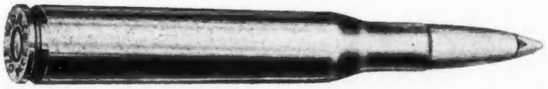
The self-exploding metallic cartridges of the sixties then, consisted of short rim-fire, folded-head center-fire copper cases, usually of large caliber with relatively light powder charges for their diameter, and short conical bullets. Muzzle velocities ran between eight and twelve hundred feet-per-second, and misfires and extraction trouble from soft metal and faulty construction were not at all rare. The cartridges were largely made by the same firms that put out the guns to use them. The earliest established company for the exclusive manufacture of ammunition still in operation is the Union Metallic Cartridge Company of Bridgeport, Connecticut, established in 1867 and since 1912 a part of the Remington Arms Company, but still operating at the original location.

About 1870 a very great change took place in cartridge types. This was occasioned by the invention of the drawn brass cartridge case, which is usually attributed to Colonel Berdan of the United States Army. By forcing a disc of annealed brass through a series of dies, a case was formed with the head of heavier brass than the walls. It was now possible to form a pocket to contain an outside primer in a one-piece case that was sufficiently strong to give proper rigidity when the primer was struck by the firing pin, and the repeated misfires of the soft metal cases were practically done away with.

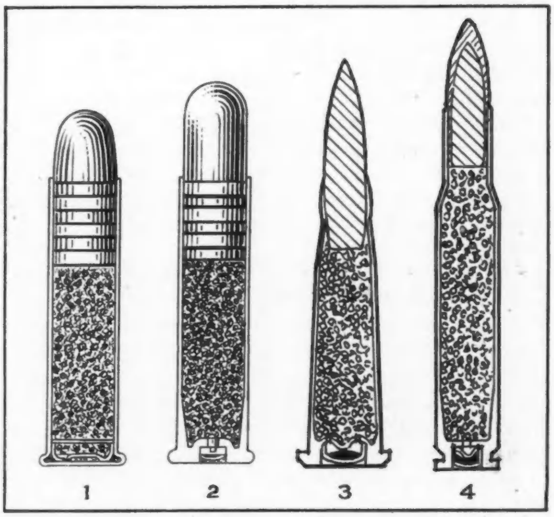
Two types of outside center-fire primers were used with the new cases. The earlier type, called in Europe the "Boxer" primer, had an anvil inserted in the primer cup and the whole unit placed in the primer pocket in the head of the case, which was flat-bottomed to receive it and pierced with a single hole in the center to allow the fire to reach the powder. This type primer is used almost exclusively in center-fire cartridges in the United States at the present time. The second type, invented by Colonel Berdan, and called the "Berdan" primer ever since, had no anvil but was used in a primer pocket with its anvil in the form of a raised center pierced with two or three holes around the sides of the cone to allow the fire to reach the powder. The Berdan primer was popular in the United States for a number of years, and is still used very extensively in Europe. Its principal drawback is the difficulty of removing it from the fired case for reloading.

Both of these cases could be reloaded, and with the American principle of deciding what was wanted and then inventing a series of machines to produce it cheaply, accurately and in quantity, they could be manufactured with a precision unattainable in any of the earlier types. With the advent of good cases and reliable primers, a great number of sizes and loads were developed for all purposes, from short-range, small-game shooting to precision target work at ranges of one thousand yards.

The heyday of the black powder cartridge was the period from the early seventies to the middle nineties. Its characteristics were drawn-brass rimmed case, of straight taper or slightly bottle-necked shape, a charge of



Right: .45-70 folded head for Model 1873 Springfield; solid-head .45-70 with Boxer-type primer; Lebel cartridge, first of the smokeless powder types; .30 cal. 1906, present service cartridge of US forces. Above: .270 Winchester, a typical modern sporting cartridge



black powder leaving little or no air space between it and the bullet, a relatively heavy bullet of medium length and high trajectory over any considerable range, owing to muzzle velocities between 1,000 and 1,700 feet per second. Its terminology was relatively simple. At most, three figures were given, and they usually meant the same, whatever cartridge was referred to. The first was the caliber of the cartridge, the second, the powder charge in grains, and the third, the weight of the bullet in grains. For example, the .45-70-500, the standard cartridge for the Springfield Model of 1873 Rifle, was a .45 caliber cartridge loaded with 70 grains of black powder and a 500-grain lead bullet.

The elements of the next step in cartridge evolution were gradually being made ready during most of the period when black powder loads were in use. Authorities agree that the metal-cased bullet with a lead core was invented in Switzerland about 1880, although some give the credit to Major Bode and some to Major Rubin. Two explosive compounds had been known for some time, but were considered too powerful for use in firearms. One was guncotton, or nitrocellulose, developed during the 1840's from the original experiments of Braconnet, beginning in 1832. The other was nitroglycerin, discovered by Sobrero in 1846. Experiments with these two explosives led to the production of a smokeless or nitro powder suitable for use in small arms by a chemist named Vieille at the French Government powder factory in 1885. The properties of nitro powders, which are made from a base of one or both of these explosives mixed with retardant and adhesive inerts, are much cleaner burning and at the same time a stronger and more controllable explosion.

The first military rifle made for a smokeless powder cartridge was the French Lebel, Model of 1886. The cartridge was the first of many of its type, most of which are still in use, including the original Lebel, which more closely approached later designs than others brought out after it. The Lebel cartridge was sharply bottle-necked with a rimmed head. It used a sharp-pointed solid bronze bullet of .315 caliber, 1.635 inches in length. The charge of early type nitrocellulose powder was 46-grains in weight and gave a muzzle velocity of 2380 feet-per-second, with a breech pressure of about 35,000 pounds.

Cartridges of this general type, differing only in that the bullets were of lead with jackets of cupro-nickel or copper-plated steel instead of solid hard metal, gradually superseded black powder loads all during the nineties and early 1900's. The earlier types ran in velocities between 1750 and 2250 feet per second, and included among the best known loads, the U. S. Government Model of 1892, better known as the Krag-Jørgenson, the .30-30 Winchester, the .303 British and many others. Their characteristic points were sharply bottle-necked rimmed cases, reinforced more strongly at the heads than the black powder cases, relatively heavy, long, round-nosed bullets, with no lubrication grooves and strong primers to set off the slower burning smokeless powders.

As the box magazine, invented by James Paris Lee in 1877, and first used in the Remington-Lee bolt-action rifle issued in small quantities to the United States Navy in 1880, came into common use in the bolt-action smallbore rifles of all nations, and automatic and semi-automatic arms became more prevalent, the rimless case with a groove around its head for the extractor to take hold of was adopted as working better with the newer types. Shortly after 1900, bullets tended to become more pointed and lighter in relation to the powder charges. Rimmed cases like the Krag with round nose bullets of 220-grains and a muzzle velocity of about 2,000 feet-per-second gave way to cartridges like the Springfield Model of 1906 with a rimless case and a 150-grain bullet at 2750 feet per second. The average speed of high power cartridges at this time was between 2500 and 3000 feet-per-second. Automatic pistol cartridges were also made in the rimless type case, but revolver cartridges have retained the rimmed case.

Increased remaining velocities have been obtained with some cartridges by boat-tailing the bullet, that is, making the base smaller than the extreme diameter to lessen the vacuum behind the bullet during its flight.

The most recent development in cartridge components is the non-corrosive primer, introduced by a number of cartridge companies in 1928. The new priming compound is a chemical mixture in which the absence of chlorate of potash and the substitution of other lead base explosives have produced a primer that leaves no harmful deposit in the barrel after the discharge of a cartridge using it.

The tendency of the last few years has been to reduce bullet size and weight again. The latest type cartridges use bullets between .22 and .27 caliber, weighing between 40 and 120-grains, with a muzzle velocity between 3000 and 4000 feet-per-second.

Many varieties of loads, brought out over the past few years and added to the older types, which have by no means all disappeared, make for a confusion of terminology that is bewildering to say the least. The older designations, such as .38-40 and .45-70, are retained for the cases that were originally so called, but no longer mean any more than the original black powder capacities of the cases, as the smokeless powder loads have nothing in common with the earlier ones in either weight or muzzle velocity, and sometimes not even in bullet weight. Some transition loads, such as the .30-30 and the .30-40, use the same type of figures, although they came out at the end of the black powder period and were loaded with black powder during a relatively short part of their existence. Most of the later type cartridges are known by trade designations or other terms, the figures of which may mean any of a number of things, while in some cases they carry no figure except the caliber. For example, the .250-3,000 cartridge is a .25 caliber load with a muzzle velocity of 3,000 feet-per-second; the .30-'06 is the U. S. Government cartridge, caliber .30, Model of 1906; the .220 Swift is a .22 caliber bullet in a case similar to the 6-mm. Lee-Navy, with a muzzle velocity of 4,000 feet-per-second, and the .22 Hornet is the same bullet in a modified case originally designed for fifteen grains of black powder.

Such has been the progress of the cartridge over some three hundred and fifty years, from a paper bag containing a round bullet and a powder charge capable of giving it a velocity in the neighborhood of 900 feet-per-second, to a brass self-exploding shell, primed and loaded so as to preserve rather than foul the barrel it is fired in, and capable of starting its comparatively tiny metal-cased projectile at the rate of four-fifths of a mile a second.

The future? Perhaps a death ray or a knitting needle at 50,000 feet-per-second. Who can say?

SHOTGUNS AND 'CHUTES

Saybrook, Connecticut
March 5, 1942

Dear Sgt. McCann:

Have just read your article in the March RIFLEMAN; that's a *real* article.

I have heard from a number of usually reliable and well-informed sources that if the nine pellets are removed from the 12 gauge 00 buck load and drilled with small holes, then *strung on long wire* and replaced in shell, they will rip a parachute enough to cause a descent of deadly speed.

If you have time please write and tell me if it would pay to try this. This section has many more repeating shotguns than rifles.

Very truly,
David J. Brooks.

Fort Kobbe, Canal Zone
March 28th, 1942

Dear Mr. Brooks:

It's funny, but that idea of stringing pellets together with wire has cropped up in many places, and I have been asked about it all over the country. Once or twice I have wondered for a moment whether, fantastic as it may seem, the idea wasn't possibly started by the fifth column, for the dual purpose of putting a lot of our Home Defense men to a great deal of useless trouble and then leaving them to rely on a measure which would prove utterly ineffectual on that fine morning when jawbone is over and the blue chips are down.

Let's go over the considerations involved, and I'm sure you will understand the several basic fallacies in the idea:

First, the shot-group of even the most blunderbussy of modern shotguns doesn't spread out a great deal before the driving force is spent. I haven't had a wide experience with shotguns, but I should think that from twenty to twenty-four inches would be the absolute maximum of normal dispersion for 00 buck within the effective range. Maybe it would be possible to convert an ordinary shotgun so that it would spread a great deal more than that; I don't know.

But I do know this: the parachutes used by all the important armies of the world are within a little one side or the other of 28 feet in diameter—hence with an area of approximately 620 square feet of air-resisting surface. On the other hand, the emergency 'chutes which American troops wear during their qualification training as parachutists (to be opened only if the main 'chute fails to work) are 22 feet in diameter, or some 380 square feet of air-resistant area.

I have seen many a man make a perfectly safe descent with his emergency 'chute only, and one case where two of the 22 silk panels ripped out at the opening snap without causing any more damage than a pair of slightly sprained ankles. In other words, if you take out 40% of the resistant surface of the military parachute it will still give a safe descent with a fairly comfortable margin. Of course, the decrease in surface gives a corresponding increase in speed, but the margin is so great that the change is small.

Another technical factor is that the "pressure area" of the canopy, which in the case of the 28-footer is within an imaginary circle of about 10 feet in diameter centered at the apex, carries virtually all the weight of the jumper, the rest of the skirt serving principally to corral new air constantly and thus keep the air-column at the center built up. It is this pressure area that must be considerably damaged before a descent becomes dangerously accelerated, and it would be the hardest area to hit from below.

Believe it or not, Mr. Brooks, if you opened up a few holes from three to five feet in diameter in the lower two-thirds of the parachute canopy, you would actually *improve* the parachutist's descent and give him easier control of his direction of travel. Our technicians are experimenting now with the idea of putting flaps, similar to those on the oldfashioned flannel underwear, around the lower skirt of a parachute so that they will pop open automatically at the initial crack of the canopy.

The next consideration is the extremely short effective range of the shotgun. Even if it would cut your holes accurately in the pressure area at fifty yards, which it wouldn't, you still wouldn't be able to get close enough to a descending parachutist to do the job. By manipulating his 'chute, he can move without any wind in any lateral direction he wishes at about fifteen miles an hour. With a wind, of course, he can travel proportionately faster. If by luck you happened to be standing directly under him at 500 feet off the ground and he saw you (which he certainly should), he could easily take off laterally in the direction of the wind, if any, and come down to earth at least 150 yards from you.

Remember, too, that he is carrying a pistol, and probably a tommy-gun or a rifle, and can make things hot for you if you are not in a good foxhole. Also remember that mass invasion jumps are always preceded closely by an intensive air bombardment of the area, which would hold you in your foxhole until just a few seconds before the jumpers appeared.

And finally, even if all these factors were eliminated, and you put a four-to-five foot hole exactly at the apex with the parachutist a hundred feet off the ground, the deflation would be slow enough to get him down safely.

No, Mr. Brooks, a shotgun at its best wouldn't even come close to taking out a parachutist at his worst, working along those lines. However, if you were sitting quietly in a foxhole, looking up through a leafy tree-branch laid across the top, and he happened to hit the ground within a few yards of you, you could certainly pulverize him while he was getting out of his harness—but you would have to shoot *him*, not his parachute. In *that* case, now, the pellets strung on wire would turn out to be a swell idea.

But the chances of that happening are negligible. I tell you without qualification that the only practical shooting iron for anti-parachutist work is the rifle, big-bore at that. And the only practical time to shoot is just as he reaches the ground. Since the foxhole is a necessity, for protection against the preparatory bombardment, you must have a very long effective range, and the .30 caliber is the only solution I can see.

Yours faithfully,
Sgt. Joe McCann.

BRIDGEPORT, CONN., MAY 1942

Rifle Remingto

Possibles and Impossibles

by **FRANK J. KAHRS**

Well, we had a great shoot at St. Pete. Great, because the weather was perfect, just like summer most of the time and it was a treat to those of us from the north to see the flowers and the birds everywhere. Not to forget, of course, the oranges, grapefruit, and all that sort of thing, which have made Florida the mecca of the snowbirds from the north.

So far as the shoot was concerned, it was a decided success. There were as many shooters on the firing line as last year—some old faces, and a great many new ones. Most of the time there was a fishtail wind from three to six o'clock, and this made for good competition. There weren't too many 400's over the Dewar, either.

That reminds me of a guy who told me that the trigger on his 37 was not so hot. He gave the usual alibi that it varied. But we didn't take him too seriously. However, the next day we saw him coming off the line after finishing the Dewar Course and we asked him how he made out. We thought he was a bit surly in his answer when he said: "398, and I got two nines because of the trigger." Well, so much for that.

Here is another one that happened at St. Pete. I told it to some of the boys in Chicago last week and they suggested that I use it in the column, so here goes. While strolling along the firing line one day I noticed a young military school cadet shooting in a trim, gray military uniform. I also noticed his equipment (that's a habit of mine). No, he wasn't shooting a 37, but what interested me was the way he had some ammunition spread out on the firing line and he was loading from a shooting block. He was shooting smokeless, but not Remington. One of the boxes by the shooting block was half open and it contained "Kleanbore." We could not resist the temptation to ask him what he was doing with the "Kleanbore" and his answer was: "I use it for fouling." Well, after I had picked myself up and dusted off some of the Florida sand, I swore softly and moved slowly up the line.

Not more than ten firing points away, I stopped suddenly before another youngster, also in a gray military uniform, and who had his equipment spread out in the same manner. No, he wasn't shooting a 37, either. After giving him the once-over I noticed that he had two boxes of "Kleanbore" alongside his loading box, one of which was half opened. He was shooting some of that smelly stuff that I dislike so much, and his block was filled with copper cases. In other words, he was shooting Lesmok ammunition, so I decided to stick my neck out again and ask him the same question: "Son, would you mind telling me what you use the 'Kleanbore' for?" "Fouling," came the prompt reply. This time I went down for the count. For the rest of the afternoon I did a great deal of talking to myself, and that is bad. I also did some thinking. Even when I saw quite a few of the boys kissing smokeless and Lesmok bullets alike, I became more and more confused.

There was only one more aspirin tablet left in the box so I took it and went home, but before I arrived I decided that all small-bore shooters were alike. Most of them are copy cats, if you know what I mean. They see some guy do something and because that guy has a "rep" they do the same thing, not knowing why they do it, but if it is good for him it must be good for them. I hope that some day the small-bore shooter will do his own thinking, and when he does, he will find that the cartridges he was using for cleaning and fouling were made for fine match work and will group in the X-ring where they were intended to go in the first place.

* * *

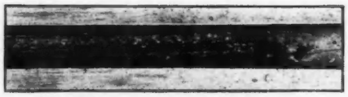
Have you ever been on a rattlesnake hunt? I have—once. While in Florida recently such a hunt was arranged by some friends. There were about six of us in the party and in two automobiles we headed for the wild and open spaces, and believe me they have them in Florida. After we got off the main concrete road on a hard surfaced road, we rattled along for about forty miles until we came to a dirt road which passed through a big ranch and when we got off this on to a trail of sand and palmettos we wondered whether we would make it. After we got off of this trail and dodged palmettos and other obstructions in the wild and woolly we no longer wondered, we *knew* we wouldn't make it. But the three cowboys in the lead who had holed up this snake in January for our special benefit knew where they were going and we finally arrived at the appointed spot, which you will note on the map which does not accompany this story, is marked "X." How they found the place we will never know, but we all got out and the head man started digging. He was one of those tough and hardy characters, and so he promptly broke the shovel handle. We had to send for another one, and he broke that too. Then a timid soul suggested that if he would drive the handle straight down he would probably stir up the snake to come out of the hole, and that is exactly what he did, and did that snake come out! He was ready for him with one of those nooses at the end of a pole and all you have to do is to pull the cord and Mr. Snake is caught.

Being official photographer for the party, I decided that the best place for safety and for good pictures would be on one of those cowboy's horses and I sold him on the idea, but the horse didn't like the way things were going and as the snake came out of the hole he backed off. We did get some nice pictures—we hope. The snake was just a bit over six feet and about 3½" thick, at least in the middle. He was one of the diamond-back variety. I have had my first and last rattlesnake hunt. Yes, I was scared and I am still scared.

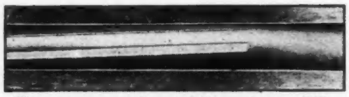
AN OLD STORY—BU A TRUE ONE . . .

Here's some dope on barrel cleanin

There are many ways to clean a rifle barrel. Strangely enoug the best way of all is to leave it alone. That is, if you sho Kleanbore exclusivel "Kleanbore" priming the original non-corrosi non-erosive cartridge pri ing. It deposits a prote tive film in the barrel th guards against corrosi and rust, and keeps yo rifle shooting with the f accuracy built into it the factory.



30,000 rounds of ordinary .22's were shot from this barrel.



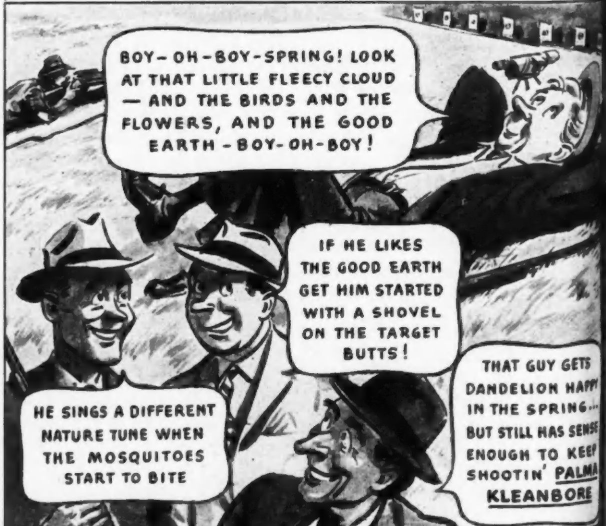
The same number of Kleanbore .22's were shot from this one.

The two photograp above tell the story. 30,0 shots were fired from ea then the barrels sawed half lengthwise. In the barrel, ordinary .22's were used. In the lower one, Kleanbo Note that there is no corrosion or erosion in the lower bar that it is positively protected against rust. Cleaning is entir unnecessary.

Sure, you can clean your gun barrel if you enjoy the exerci But remember, a thorough cleaning job causes more wear t the rounds you'd shoot in many matches. Today, thank Kleanbore priming, barrel cleaning is a thing of the p "Kleanbore" priming is not only non-corrosive itself, but film it deposits inside the barrel prevents rusting or pitting f other causes and prolongs the accuracy life of your pet r

DID YOU KNOW—that the Remington machine rest from which test groups are fired, are installed on a concrete pi that extends through the foundation of the building down bed-rock? This provides the stability needed in checki accurately the uniformity and grouping characteristics of a Remington .22 ammunition.

THERE'S ONE IN EVERY CLUB . . . *The Nature Love*

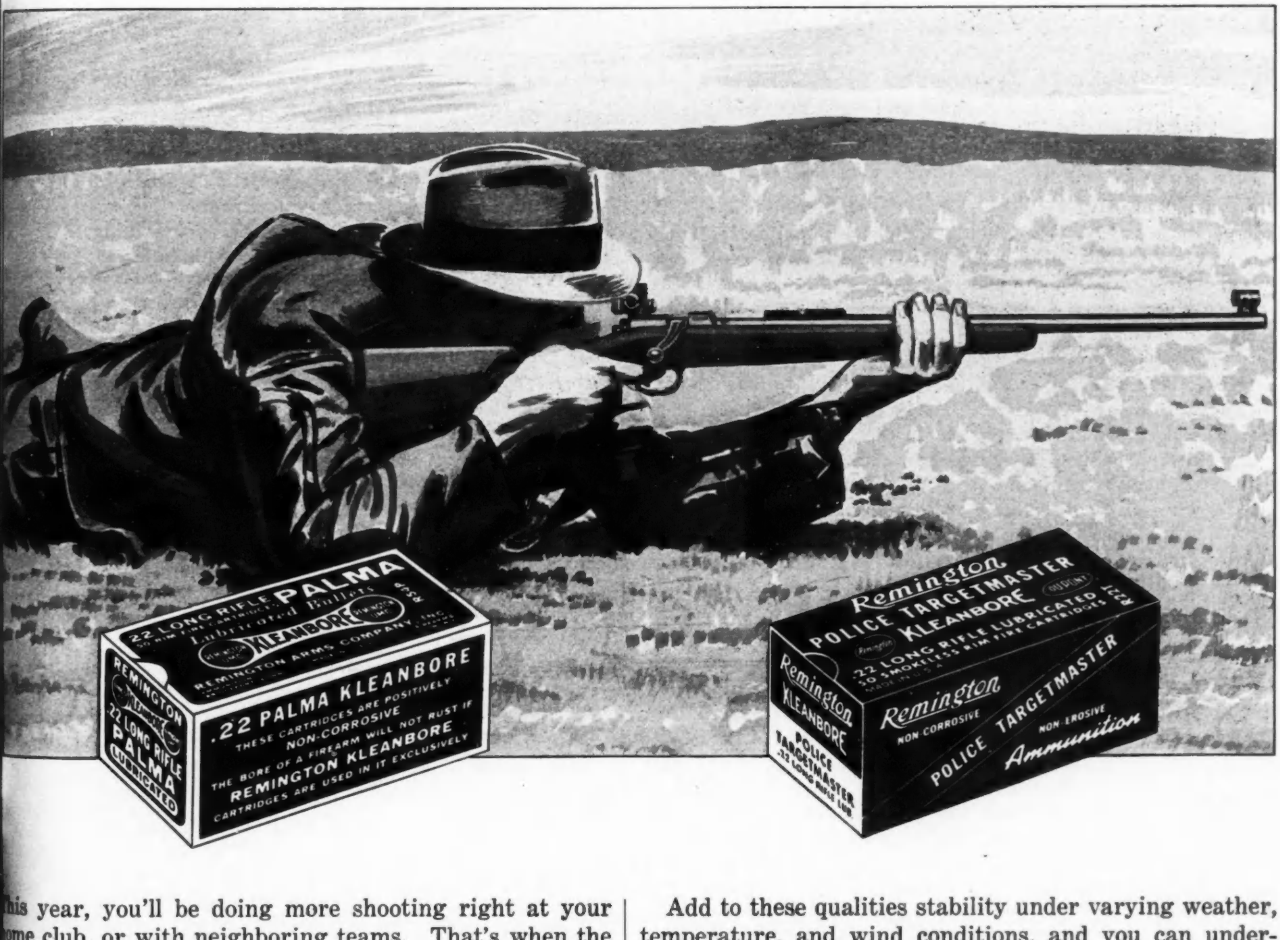

BOY-OH-BOY-SPRING! LOOK AT THAT LITTLE FLEECY CLOUD — AND THE BIRDS AND THE FLOWERS, AND THE GOOD EARTH - BOY-OH-BOY!
IF HE LIKES THE GOOD EARTH GET HIM STARTED WITH A SHOVEL ON THE TARGET BUTTS!
HE SINGS A DIFFERENT NATURE TUNE WHEN THE MOSQUITOES START TO BITE
THAT GUY GETS DANDELION HAPPY IN THE SPRING... BUT STILL HAS SENSE ENOUGH TO KEEP SHOOTIN' PALMA KLEANBORE

"KLEANBORE", "PALMA", "TARGETMASTE

Remington News

A PAPER FOR PEOPLE WHO SHOOT

GET OFF TO A WINNING START OUTDOORS WITH REMINGTON MATCH AMMUNITION


22 LONG RIFLE PALMA
Lubricated Bullets
KLEANBORE
REMINGTON ARMS COMPANY, INC.
REMINGTON KLEANBORE
22 LONG RIFLE PALMA LUBRICATED
.22 PALMA KLEANBORE
THESE CARTRIDGES ARE POSITIVELY NON-CORROSIVE
THE BORE OF A FIREARM WILL NOT RUST IF REMINGTON KLEANBORE CARTRIDGES ARE USED IN IT EXCLUSIVELY
Remington
POLICE TARGETMASTER
KLEANBORE
.22 LONG RIFLE LUBRICATED
50 SMOKELESS RIM FIRE CARTRIDGES
Remington KLEANBORE
POLICE TARGETMASTER .22 LONG RIFLE LUB
Remington
NON CORROSIVE
POLICE TARGETMASTER
NON-EROSIVE
Ammunition

his year, you'll be doing more shooting right at your ome club, or with neighboring teams. That's when the onfidence you have in Remington match ammunition's bility to maintain a constant center of impact makes it asier for you to register winning scores.

These cartridges are precision-made to give best results n the hottest competition. They are as uniform, as de-endable as 126 years of Remington experience can make hem.

They are constantly tested to make sure of two things —tightness of groups and uniformity of grouping char-cteristics.

Add to these qualities stability under varying weather, temperature, and wind conditions, and you can understand why so many top-notch shooters use Remington match ammunition for all their shooting.

So this year, when you go outdoors for your first dose of wind, sun, and mirage, take along Palma Kleanbore or Police Targetmaster match cartridges. If your holding is good, and you're squeezing them right, they'll bunch up in the "X" ring the way you like to see them. Shot after shot, you'll be more and more impressed with the tight groups, the uniformity, the stability and the unsurpassed accuracy of Remington match ammunition.

eg. U. S. Pat. Off. by Remington Arms Co., Inc.

Any Alibis?

THRASHING OUT THE WOES OF THE HANDGUNNER . . .

This month our champion starts an argument. We'll have another opinion next month.

THE SLOW-FIRE QUESTION

THE PRESENT THREE-STAGE COURSE of handgun shooting tends to decrease slow-fire proficiency. Emphasis today is placed on timed and rapid-fire shooting to a degree that almost excludes slow-fire shooting, and as a result the average shooter is able to make only a fair score at slow fire. Many an otherwise excellent National Match or Camp Perry score is spoiled by the poor showing at the slow-fire stage.

Although nearly all shooters can, through practice, learn to shoot good scores at timed and rapid fire, slow fire is learned only by many hours of patient concentration. The true worth of a shooter's ability is reflected in his slow-fire scores.

A beginner should be limited to slow fire until he has learned the art of holding the pistol and squeezing the trigger sufficiently well to make good slow-fire scores consistently. Then, and only then, should he be allowed to approach the fast stages of shooting. Rarely, if ever, does a shooter who starts out by learning the fast stages develop a proper slow-fire technique.

It is true, of course, that many shooters who prefer slow fire have found it necessary to learn timed and rapid fire in order to compete in today's matches. Almost always, in such cases, the shooter finds that his concentration on timed and rapid fire causes him to get careless and shoot too fast at slow-fire, with consequently lower scores at the slow-fire stage.

In my own case, my first and fundamental interest in shooting is at slow fire with either a .22 pistol or a .38 revolver. All through the indoor season I have the chance to shoot the courses I most enjoy (and, incidentally, do my best shooting). When the outdoor season begins, however, the picture changes. Over-emphasis in many matches on timed and rapid fire makes it practically impossible for me to get in much shooting if I insist on shooting only the slow-fire stage. I love the sport, and I'm willing to drive many miles during the summer season to follow it, but I do like to participate more than is possible when I shoot only at slow fire. Consequently, after several years as a "virtual outsider" at many matches I finally decided to learn to shoot the other stages.

After I concentrated on timed and rapid fire for some time I found that my slow-fire scores were beginning to go down. The fast squeezing of the trigger necessary at timed and rapid fire was making it more and more difficult for me to take the time at slow fire necessary for good scores. Even now, after trying for years to correct this condition, I find that it is practically impossible to shoot slowly enough at slow fire after practicing and competing for a time at timed and rapid fire.

Those of us who prefer to shoot slow fire do not object to the other stages, but we do feel very strongly that too much emphasis is placed on the other stages and that many match officials discriminate unfairly against slow-fire shooters. For example, many a .22 slow-fire match is scheduled for 8:00 a. m., which means that we often must drive from ten to a hundred and fifty miles before dawn, climb out of our cars, and shoot twenty shots without the benefit of "warm-up". Despite such unfavorable conditions the slow-fire shooter is expected to (and usually does) fire a good score. Sometimes it seems to us that the slow-fire matches are put on the schedule only to serve as a "warm-up" for the other stages.

We (the slow-fire shooters) believe everyone who follows the sport would benefit if shooting schedules included many more slow-fire matches. A prominent advertisement in *The American Rifleman* says "Don't be *just* a slow-fire shooter, etc." (the italics are mine). Our answer to that is "PHOOEY!!!". A slow-fire shooter is the highly skilled artisan at his sport—the speed artists are the mass production workers.

Slow-fire pistol target shooting is not something that has sprung up over night—on the contrary, it has a long and honorable history, and the names of its champions are familiar to any student of American history. The oldest match reported in today's record books dates back to 1860. In his *Pistols and Revolvers*, Major Hatcher reports that in that match Captain John Travers, of Missouri, and another gentleman, whose name is not recorded, fired at 15 china plates each, the plates being 9" in diameter at 100 feet. Captain Travers broke 11 of his 15, while his opponent "although shooting with great skill" (?) broke only 9. In 1865 Travers was joined by Colonel William F. (Buffalo Bill) Cody and Captain William P. Schaaf, both famous shots with a pistol, and the three toured the country together giving shooting exhibitions.

The first shooter of note to shoot scores under present conditions was Ira Ansen Paine, whose many years of record breaking started in 1880. Although the best ammunition available at that time was factory made and loaded with black powder, his slow-fire scores at 50 yards on the standard American target would be envied by many shooters today, despite the great improvements in equipment and ammunition.

Until recent years the bulk of indoor or gallery shooting has been slow fire. It is my opinion that we would do well to return to those "good old days" and place less emphasis on the rapid-fire stages. Such a move would accomplish several desirable results, one of the most important being the conservation of ammunition and hand loading components, both of which are becoming scarcer and scarcer as the present emergency approaches its critical moments. A shooter could then have a full day's shooting with relatively few shots fired, and such matches would bring out more of the "one gun" men who normally will not shoot when there are only one or two matches on the schedule which interest them. These now-neglected individuals can and should be encouraged to take the place of men now in the armed services of the country.

Here's hoping for more and better slow-fire matches.

James H Chapman

The Old Coach

OFFICERS AND RIFLE COACHES

MANY OLDER RIFLEMEN who are exceptionally well qualified instructors and fine shots, and who have a knowledge of reloading and other things pertaining to marksmanship have been writing to their friends in the Services and to the N. R. A. thinking that their knowledge might be of value in the Army, perhaps as Instructors in Rifle Practice or in some other capacity. As a matter of fact the Army cannot well use men having these but *no other* military qualifications.

Although it is one of the most important, rifle shooting is by no means the only thing that the Infantry soldier has to be proficient in to make him efficient in combat. In the first place the soldier must be disciplined. That is, he must have learned to place the mission of his unit above his personal welfare, and to conform his actions to the will of the leader. Discipline carries with it the spirit of teamwork and mutual trust.

Then, in addition to being skilled in the use of his rifle or the weapon with which he is armed, he must be physically conditioned for extended field service, and must be instructed in the proper care and maintenance of his full equipment. He must have an understanding of the effect of weapons, of toxic chemicals, projectiles, and the means of gas defense. He must be familiar with terrain forms, cover, concealment, representation of terrain forms on a map, the use of intrenching tools, and the construction of obstacles. He must be able to find his way around in strange country, and his way back again, and must understand orientation by means of the sun, moon, stars, watch, and compass. He must be practiced in the many duties of the individual soldier on the march, in shelter, and in combat. He must be trained in drills, maneuvers, landing operations, musketry, fire on moving ground targets, fire on air targets, first aid, etc.

Regulations, customs of the service, psychology and common sense charge the company commander and his lieutenants with the imparting of *all* this instruction, including rifle practice, to their men. Any other way of teaching would be detrimental to company discipline and teamwork, and would cause unnecessary delay. The officer who leads his men in combat must be their instructor. His must be the responsibility.

All this instruction requires a great deal of time. But all the time there is the pressing call for organizations trained in combat to enter the theatre of operations. Undoubtedly some of this instruction will have to be slighted in the immediate preparation for war. We know that in some cases the instruction in individual marksmanship has been shortened to a very undesirable degree, and occasionally neglected entirely, which is unexcusable. This is where our older riflemen come into the picture. Individual marksmanship is the only thing they are qualified to instruct in. How fine it would be could they take on the instruction of our young men in this branch of their training *before* they are drafted. There is no good reason why they cannot. It would do a lot towards insuring final Victory, as well as save countless lives. Even if we can get only an occasional good shot into a combat organization his influence there on the other men will be all for the good.

Today we seem to be on the eve of a serious ammunition shortage, not in the Army but everywhere else. However, ammunition is not absolutely necessary to *teach* rifle marksmanship, but only to *prove* it. Marksmanship can be taught in preliminary practice and dry firing. With any military or match rifle we can teach holding, aiming, trigger squeeze and their coordination, the various firing positions and the use of the gunsling, calling the shot, sight adjustment, loading, operation in slow and rapid fire, the *theory* of wind allowance, and the quick assumption of the various firing positions without firing a single loaded round, and without a rifle range. Thorough familiarity and skill in these preliminary matters will go a long way towards making a marksman, and any older rifleman or coach can give such instruction to countless young men without one cent of expense and without any facilities except his own rifle. By using the Winter Sighting Device it is even possible to add a desirable element of competition to dry practice.

War is not all a matter of aerial fighting. In fact massed air attacks are only the preliminary to a campaign. They must be followed by the advance and successful attack of ground troops. Airplanes play a very minor part in a ground attack against a determined and well trained force. You cannot bomb a trained enemy out of position. He simply digs in. Nor is ground warfare all a matter of armoured divisions and tanks.

Ground combat is by no means a continuous heavy attack or pitched battle. There are pauses between the heavy attacks when combat takes on the form of patrolling all along the opposing lines, and of small infiltration attacks started by more or less sizable patrols. The patrols seek to cause casualties on the enemy, to capture prisoners, or to break through his lines. A patrol successful in breaking through offers a wedge where others may follow, finally perhaps creating a salient dangerous to the enemy and furnishing an incentive for a strong local attack at that point. Patrolling is splendid training for combat troops, or it may ruin their morale, depending on the success or defeat of the patrol. It demands the finest kind of marksmanship combined with all the other qualities which make a good foot soldier. The Infantry soldier so engaged must be able to hit with every shot. If he knows he can hit he will soon develop into a daring, courageous and successful scout. In defense he will maintain his position, knowing that he can hit and stop every patrol or attack that comes against his position. Fine rifle shots have the courage and morale that makes invincible soldiers.

Yes, there is a splendid opportunity for every older rifleman to serve. DO ALL YOU CAN, WITH OR WITHOUT AMMUNITION, TO TEACH OUR YOUNG MEN TO HIT WHAT THEY SHOOT AT—AND TO BELIEVE IN THEIR ABILITY TO TAKE CARE OF THEMSELVES AS LONG AS THEY HAVE RIFLES AND AMMUNITION.

POWDER SMOKE: READERS COMMENTS THE NEWS DESK

RE-LOADS . . .

"BLACK WITH SWEAT"

Editor, American Rifleman.

In the article "Simba, Angolia", in the April issue it is stated on page 15, "A buck black with sweat, flying for its life had just passed me.". As Hashimura Togo, the Japanese schoolboy, used to say, "I ask to know." I have been reading about buffalo, cattle, antelope and deer being wet with sweat for years. Stoddard, the lecturer, describes a bull fight he claims to have seen in Spain, and, expanding upon the agonies of the bull, pictures its sides as wet with sweat. An old hunter I used to know had a favorite joke about the spectator who said that first the deer went by in a lather and then the hounds dripping with sweat. Personally I never knew of any ruminant that sweats except—if you can call it sweating—from the nose and tongue. Maybe some of them do. But I have finally decided to ask. Every time I read that sweating stuff I lose faith in an author or an editor or both. Maybe I'm wrong. If so I would like to find out and go back and read the rest of Stoddard's lectures, from where I left off years ago—at the bull fight.—*F. E. Borton, Bakersfield, California.*

Septimus Sisson in "Anatomy of Domestic Animals" (2nd edition, 1927, p. 898) describes sweat glands in cattle. National Museum Mammalogist Garrett Miller indicates these are poorly developed and sweating may not always be noticeable. Obviously scorning poetic license, Mr. Borton's criticism also lacks mammalogical fact. He may now continue with Stoddard's lectures.—Ed.

THUMB-NOSE COMPLEX

Editor, American Rifleman.

I'm not an authority on shooting so maybe I can ask some dumb questions and not be censured too much. I've been shooting for 40 years but just started belly shooting last year and I have become perplexed over several illustrations of correct positions in the American Rifleman which show the thumb of the right hand paralleling the receiver instead of across the grip. Then, too, I found men with some experience who have been instructed that the thumb must parallel the receiver to keep from getting their nose blooded, if not broken, by the "vicious kick" of a .30-'06.

In all my shooting experience I never have had a bloody nose nor any other "thumb-nose" complex develop and I shoot, like most have been taught, with the thumb across the grip. I asked some experts about it and they said it didn't make any difference. Well, I think it does and here is why:

There is no question as to the advantage of having one's thumb out of the way when a loosely- and incorrectly-held Army rifle is fired; and that when one is tightly strapped to his rifle the position of the thumb is of little consequence. There are times, however, when shooting has to be done without a sling. (Slow fire without a sling might still permit us to classify the thumb position as of little consequence.) But I have yet to witness a man making a quick shot at a running deer or any other wild animal while not having a firm grip on the stock. This is only possible by having the thumb across the grip.—*Don V. Shuhart, Fort Worth, Texas.*

THE RIGHT THUMB

Editor, American Rifleman.

On your March cover I noticed that the thumb on the right hand of the student Marine being instructed is lying across the grip of the rifle. On the back cover I notice a rifle being held in the same manner.

These thumb positions are different from the way I was instructed and I wondered why such a change had been made.— *B. E. Linton, Sarasota, Florida.*

In .30 caliber rifle training it is optional whether a man learn with the thumb across the small of the stock or lying along the right side of the stock. The latter method generally is preferred and recommended in military manuals. Neither Mr. Linton nor Mr. Shuhart need fear that his position is in ill repute.—Ed.

POPOWSKI'S PERCENTAGE

Editor, American Rifleman.

I would like to call your attention to a mistake in the May issue. In the article, "Hell With That—" by Bert Popowski (page 11) the author computed a percentage of crows killed as follows:

"36 shells loaded with 6's killed 28 crows, or 90 per cent."

I don't know how Mr. Popowski arrived at that figure or whether it was a typographical error or whether it was just an oversight, but I notice his two other percentages were correct. Anyway, when I went to school 28 per cent of 36 was 78 and not 90.

Outside of that I have no argument with Mr. Popowski nor with his article, which I enjoyed.—*Philip J. Neale, Biloxi, Mississippi.*

BUDDY POPPY
VETERANS OF FOREIGN WARS OF THE UNITED STATES

TIMED FIRE

With Bill Shadel

Captain John Zadoc Wheeler, decorated with the distinguished service cross for gallantry in action in the Philippines, whose own story appeared in the March 2nd issue of *Life Magazine,* is, we're proud to say, "one of our boys." His father, Dr. M. W. Wheeler of St. Paul, Minnesota, tells us that he started "this chap shooting with a .22 rifle (not a BB gun) at five years of age." The doctor goes on to say, "he was one of 'your' boys in the sense that he shot his way through all the different grades of marksmanship and was very proud of his medals which he accumulated from the Association . . . and I believe that his present exploits in the Philippines is adequate proof that an intensive training comes in handy at certain periods of one's life."

Plebes at Ease: **The Army's Cadets at West Point have been none too conspicuous in the intercollegiate rifle championships over the last few years, but with the whole nation Army conscious, the 1942 team pulled a MacArthur counter-offensive to win the national title over several favorites. Major R. L. Jewett, officer in charge of the rifle team, writes that upon word of the 1942 championship, "the Corps of Cadets greeted the announcement . . . by permitting the plebes to sit at ease at the meal, an unheard-of-concession except for outstanding accomplishments by cadets."**

Camp Perry Veteran: The grand old man of Camp Perry, General A. B. Critchfield, was unable to attend the matches last year, the first since 1903 that he's missed. He has gone almost entirely blind in the past year. It's easy for us all to forget so we're glad for this reminder from W. H. Tonkin who says he calls on the General whenever he gets near his home at Shreve, Ohio. "'Critch' insisted that I must come often, and must tell everyone who knew him to come . . . so pass the word around. The General does not say so, but I'm sure he is very lonesome in the 'Dark'."

Your Reading: *If you're interested in military subjects, and who isn't these days, allow us to pass along this tip. The service magazines are chock full of readable articles which a layman would appreciate. Tho' you can't grab these off a newsstand it's nevertheless well worth the effort to pick up, by subscription or otherwise, current issues. We'd be glad to pass along your inquiries. The* Infantry Journal *is especially useful, for in addition to the splendid articles, the book reviews and the extensive listing of new publications makes it a first on your reading list. The* Field Artillery Journal *seems to have the best access to foreign sources discussing recent campaigns. As for books, don't miss "Guerrilla Warfare", "Civilian Defense of the United States", both mentioned on p. 37, and "Specter of Sabotage." The NRA's new booklet, on the why and wherefore of Minute Man organization, is another item worth reviewing.*

NEW BOOKS:

GUERRILLA WARFARE

By "YANK" LEVY

This personal-experience manual is vividly realistic, intensely exciting, and brutally frank in outlining the basic principles of successful behind-the-lines warfare. After a brief introduction crediting the actual defeat of Napoleon, the success of Lawrence in Arabia and the more recent heroic defenses in Ethiopia, China, etc., to guerrilla warfare, detailed instructions are given on the most modern methods for the efficient "liquidation" of both external and internal enemies, either by small groups or through individual initiative.

While tanks and dive bombers have been of immediate primary importance in recent Axis successes, the author advances the proven fact there never has been a mode of warfare that could not be beaten by the insidious, never-ceasing, never-locatable drain on man-power, equipment and morale through guerrilla warfare.

"Guerrilla Warfare" by "Yank" Levy. Penguin Books, Inc., New York, 1942. 120 pages, illus., pocket size. May be obtained from the N. R. A. Book Department, 25¢.

"ENCYCLOPEDIA OF AMERICAN HAND-ARMS"

By GEORGE M. CHINN, JR., AND BAYLESS E. HARDIN

Here is an amazing book for the handgun collector—an identification manual that will be a godsend for new collector or veteran alike. Feature of the book are its nearly 400 half-size drawings of US pistols and revolvers, which make the work truly an encyclopedia, both in scope and field of usefulness. On each page, opposite the figure to which it refers, are descriptions of the arms, together with a wealth of historical data. As a job of bookmaking it stands head-and-shoulders above the average collectors' volume.

Not its least unusual features are the men who put it together. Neither Chinn nor Hardin are collectors themselves. Historians both, they have brought to their job an orderly approach to the subject possessed by all too few of our dyed-in-the-wool antique gatherers. Here is a volume that can hardly fail to find its way into the library of any serious gatherer of the firearms of yesteryear. For the youngster, it certainly will prove as workable a reference as any on the market.—J.K.S.

"Encyclopedia of American Hand-Arms" by George Morgan Chinn, Jr., and Bayless Evans Hardin. Standard Printing and Publishing, Huntington, West Virginia, 1942. 349 pages, 372 figs. From NRA Book Department, $8.00.

"CIVILIAN DEFENSE OF THE UNITED STATES"

By COLONEL R. ERNEST DUPUY, G.S.C., AND LIEUTENANT HODDING CARTER, F.A.

For the slightly bewildered civilian, anxiously watching developments within the various civilian defense activities and trying to match them up in an over-all picture, the ably prepared "Civilian Defense of the United States" must not be overlooked. This book gives the best consensus of the problem and description of the many agencies that we have seen. The authors, in the foreword, outline their objective and we can only say that they have accomplished it in interesting style; namely to provide "neither a technical manual for the civilian defender nor a criticism of the civilian defense effort to date. Rather . . . (the book) attempts to emphasize the scope of the diverse activities which are included in a broad definition of civilian defense, to survey the demands which war makes upon the civilian and to define the extent of his participation."

Particularly pleased were we to see the four pages devoted to the part of the National Rifle Association and its members in the "no surrender" chapter. Pointing out that this stage of defense is "a matter of stark reality, grim determination, and sagacity," the authors emphasize the training background of our small arms experts who "already have one of the invaluable factors of military morale." "Too much stress cannot be put upon the value of the trained marksmen of the National Rifle Association." "Now is the time to recognize these people; to enroll them, to organize them, to make them part and parcel of our martial effort."—W.F.S.

"Civilian Defense of the United States", 296 pages, $2.50. Farrar & Rinehart, Inc., New York, Toronto.

GOVERNOR LANGLIE CLARIFIES GUN PROCLAMATION

Several weeks ago Governor Langlie of Washington issued a proclamation relative to the storage of firearms and ammunition and registration of firearms by people possessing more than five. The proclamation was intended to increase the difficulty of burglarizing firearms in useable condition from stores and homes and to protect loyal citizens who owned a large collection of firearms from suspicion or unnecessary investigation. It was evident that Governor Langlie had no intention of interfering with the normal sale, possession or use of firearms by sportsmen, but, as published, the proclamation was so paragraphed and punctuated as to leave it open to possible unfavorable interpretation by some local authorities.

In order to definitely clear the air for the benefit of all members and law-enforcement officials in the State of Washington we have obtained permission to print the following communication from Governor Langlie written to Mr. Frank A. Weston, President of the Seattle Rifle and Pistol Association and chairman of a special committee appointed by the Washington State Sportsmen's Council to consult with the Governor concerning the matter. The following letter was dated at the Governor's office, March 31, 1942.

Dear Mr. Weston:

Pursuant to our meeting in Seattle, and in order to clear up any misunderstandings in your mind or the minds of other sportsmen in regard to the proclamation issued from this office in the early part of March, I want to advise you that there is no intention to disarm the legitimate sportsman or to cause him to disable his firearms.

Paragraph "B" shall be construed to apply to dealers and collectors of firearms which might be dangerous in the hands of enemy or subversive elements.

Firearms in your home will be considered to be in a reasonably safe place. They should not be in places where they would be visible to casual callers.

You will not be harassed in any way over the paragraph relating to the reporting of firearms in your possession if you are a legitimate sportsman. It is our intention that this shall relate to enemy aliens, persons of dual citizenship, and citizens who are members of groups or organizations which have been formed for the purpose of overthrowing the United States government or any of its states or possessions.

Your cooperation is appreciated.

Sincerely yours,
ARTHUR B. LANGLIE,
Governor.

BRASS SALVAGE

In a letter to the Director of Civilian Marksmanship the Ordnance Department has asked that office to make every effort to salvage scrap material, especially brass, resulting from club shooting. In its effort "to assure that no sources of scrap brass are overlooked," the Department has designated three depots to receive scrap:

Benicia Arsenal, Benicia, California.

Savanna Ordnance Depot, Proving Ground, Illinois.

Raritan Arsenal, Metuchen, New Jersey.

"Those clubs and organizations signifying a patriotic desire to aid in this effort, should do so by sending their scrap brass to the closest station of the three listed above. Organizations that do not desire to dispose of their scrap without recompense should be advised that they will also materially aid the war effort by saving all scrap brass and disposing of it through commercial channels," the letter stated.

Captain A. F. Laudensack

Captain Laudensack—"Al" or "Cap" as he was known to his host of friends in the rifle shooting world—suffered a sudden heart attack on the morning of March 24 and died in his 76th year.

"Cap" will be best remembered by the host of present day shooters as the "father" of the Model 52 Winchester target rifle. It was he who conceived the idea of making a rifle along the lines of the Springfield military rifle and to take the .22 caliber long rifle cartridge as he foresaw the trend as evidenced by the popularity of shooting at 50, 100 and 200 yards in England.

He was a regular contestant in the early 1900's at the big bore shoots of the day as well as at such matches as the 25 yard indoor offhand championships at the Iriquois Rifle Club in Pittsburgh and the Zettler matches in New York. "Cap" competed with all of the big names of those days in rifle shooting—Harry Pope, Dr. Hudson, Harry Thomas, Louie Ittel and Al Huebner.

His extensive knowledge of guns made him very popular, especially with the beginners to whom he always was most considerate, and he was conceded to be Winchester's No. 1 trouble shooter and anyone who took his problems to "Al" rarely went away without a solution. His absence will leave a big gap and old timers and youngsters alike will miss him. Captain Laudensack was in the service of Winchester for over 50 years and was a member of the Masonic order for 44 years.—MAJOR J. W. HESSION.

TOURNAMENT REVIEWS

ST. PETERSBURG

So the eleventh annual St. Petersburg Mid-Winter Small Bore Matches are over and despite tire rationing riflemen were as numerous as ever, though many of the Old Guard were missing. There were enough first-timers to fill the ranks, however, so this year's registration found 21 States represented. Contrasting the erratic weather of March, 1941, Florida's weatherman on this March 11-15 gave the shooters many a blistered nose and a mess of mirage—a specialty of the American Legion Range.

Everyone was in finest shooting fettle. Newcomers like Dwight Kleist, young aviation inspector in the Bendix Plant from Souderton, Pennsylvania, kept the experienced on their toes.

Kleist struck his stride early on Wednesday in the Individual 50-yard Match, scoring 400-20X. On Thursday he repeated in the Individual Dewar with 400-29X. Furthermore, he attained membership in the "400 Club." Doc Lewallen, local "Vet," took second in the 50-yard, scoring 398-30X.

R. S. Dixon, Clearwater, Florida, won top spot in the Sunshine Trophy Match with 397-20X, ahead of Edward M. Kell, Deerfield, Kansas, by 8X's. Good-natured C. D. McElwee, Dauphin, Pennsylvania, accepted third niche, scoring 396-21X.

The 50-Meter Two-Man Team honors went to that hard-shooting pair, Bill Schweitzer and Alvin Ferber, their total being 396.

The Individual Short-Range Any-Sight was annexed by Doc Lewallen, scoring 399-27X, and Dixon ran away with the Individual 100-yard event with 397-22X. A. Frank Baker, of Starke, helped to keep Florida in the limelight, scoring 396-22X for second honors.

Schweitzer took over the 50-Meter Individual with 398-27X, and teamed again with sidekick Ferber in the Long-Range Two-Man Team event on Friday, 13th. Their total score of 394-12X won first place. After C. E. Eckles, of New York, annexed the Swiss Match with 22 bulls, Doc Lewallen arrived on the line nine minutes late for the St. Petersburg Special and with eleven minutes to go he got into position and fired a top score of 399-26X. Kleist took second.

Saturday began with the Individual Long-Range. Here, Dixon shone again, scoring 193-7X, while A. C. Grooms, Grove City, Ohio, scored 397-20X to easily take top honors in the Restricted Class Dewar. Ray Mongreig, the Michigander, placed second with 393-21X.

Eckles and Tekulsky teamed to win the Short-Range Two-Man Team event, scoring 796-52X, and the Clearwater Rifle Team's 1170-43X won them the National Inter-State.

U. S. Service Trophy Match, an aggregate, went to Kleist, whose 3967 gave him the Trophy, a Gold Medal and $25.00. Schweitzer's 3965 afforded him $15.00 and the Silver Medal, while Dixon with 3963 stepped into third place, receiving $10.00 and the Bronze token. Those were the Masters!

The Expert Class featured Eckles' 3951, Abrams with 3946, and F. J. O'Hare with 3943.

It has often been said, "A little child shall lead them." That is precisely what Audrey Bockmann did in the Sharpshooter Class. This 10-year-old star from Ridgefield, New Jersey, takes her shooting quite seriously and her scores matched some of the best. Her total of 3919 topped the Sharpshooters. McElwee's second place score was 3908, and A. Frank Avery stepped into third with 3903.

Dwight Kleist

The Southeastern Small Bore Championship, another aggregate, also went to Kleist, who scored 990-63X. The Expert Class was led by L. D. Airey, Baltimore, scoring 983. Avery's 980 led the Sharpshooter Class.

There were 13 medal winners in the National Mid-Winter Small Bore Championship, headed by Schweitzer with a score of 1980. To him went the Trophy, Gold Medal and $50.00. Kleist's 1971 gave him a Silver token and $25.00.—Lola M. Bridgland.

TAMPA

You probably can chalk off Tampa's National Mid-Winter Pistol Tournament for the duration after that March 19-22 edition but the tourney sponsors and those who attended made the last fling a good one. Many of the old familiar teams and individuals were missing but their number was made up by a host of "first-timers" who came from as far away as Nebraska to have a try at this famed match.

Some 150 competitors were out altogether for the program of 27 events plus the popular Tampa entertainment which again included a chicken dinner and dance on the last night.

The first day of competition was devoted to team matches in order that the latter days of the week, during which time could more easily be gotten off, could be taken up entirely with individual competition. And, after bowing to the host town police squad in the opening Hav-a-Tampa clash, Francis O'Connor and his Kansas City Police mates cleaned up in the three other team events. The O'Connormen took the Firestone, City of Tampa and Inter-State Inter-Service Match Trophies. Then individual competition got under way.

Despite the loss of the .45 caliber aggregate to Harry Reeves by 16 points, O'Connor was the sensation of early firing. He set the only new national record of the match, a powerful 198 over the rapid fire course which netted him top honors by eight points. This came after Moe Wilson and Reeves had split the first two events. Harry then went on to top the National Match Course field which gave him an aggregate of 847 x 900. O'Connor and Wilson had 831's. Don Robinson of Enfield, Me., Byron Engle of the Kansas City Police, and Cuba's Lt. Pablo Martinez were the class winners.

After warming up on the .22 caliber Camp Perry Course match, Reeves copped the Center-Fire Slow Fire event by five marks over Smitty Brown with 191. Here Lt. Phil Roettinger, U. S. M. C., took over for the rest of the day. Lanky Phil, now of Quantico, who attended the Tampa match last year as his first experience outdoors and the second match of his life, grabbed the timed and rapid fire honors with 194 and 196, respectively, finished second by one point to Ralph Kirk of Kansas City over the National Match course, and was sporting a nine-point edge over Brown in the Center-Fire Aggregate. His total was 852. J. C. Hartness, Tampa, Tom Harris, St. Petersburg, and Martinez led in class competition.

Two more special matches which Reeves and O'Connor split and the field was on its way for .22 caliber and Grand Aggregate honors. First, Dr. Francis F. Sowers of Fairmont, W. Va., fooled everyone and copped the Slow Fire test with 184 and then Tampa's Rolla L. Standau outranked O'Connor in the Timed Fire after both had posted top tallies of 197. Here Reeves, who had slipped in those two matches and whose carefully built-up lead was dwindling, staged a comeback and won the Rapid Fire and National Match Course events. This gave him the .22 title by two points over O'Connor with 866 and the Grand Aggregate by 19 points over O'Connor with 2550 x 2700. Another Tampa shooter, M. D. Sinclair, led Experts with the .22; George Weir, Rockford, Ill., topped Sharpshooters, and Joe Anderson, Louisville, Ky., was high man in the Marksman class.

Class winners in the Grand Aggregate were Engle, high Expert; J. L. Fergerson, Tampa, high Sharpshooter; and Martinez, the Cuban Police officer, was high Marksman.

Alice Jefferson, with 815 in the .22 aggregate and 2288 in the All-Around, won both of those honors among woman shooters. Winding up the program, hosts Smitty Brown and J. C. Hartness copped the .22 caliber Two-Man team match over the National Match Course with a new civilian record score of 579 x 600.

MIAMI

Palms and sunshine, balmy breezes and hot scores, fun and laughter and cheery greetings made up the March 24-27 Miami International Open Pistol Tournament. That, along with the new faces, new friends on the Palmetto Pistol Club Range—and good sportsmanship with not a single challenge or protest—made this a tourney to remember.

Seventy-five pistol toters, some coming thousands of miles, lined up for the opening match and stayed at the guns until late Friday night, when the last farewells were said. Twenty-three matches of three relays each were fired in record time and everyone from Harry Reeves, super Master, to the lowliest Marksman, came in for his share of awards and cash prizes. One thing was new on the program, however—two experimental matches over the N. R. A. Short Course were fired at night under the tropical moon and an effective lighting system. From the scores it may be said that there is something in this night shooting at Miami. Francis O'Connor, of Kansas City, won them both with a 291 with the .22 and 284 with the center fire gun, which is not sloppy shooting under any conditions.

As for the tournament, Reeves took top honors in all aggregates, as expected. He won the All Around Championship with 2575 of a possible 2700, the .22 Championship with 875, the Center Fire Championship with 868, and the .45 Championship with 832 of the possible 900 points. O'Connor and Tampa's C. A. (Smitty) Brown pushed the winner all through and were only beaten out by small margins, with Jack Stiles in there shooting the best of his life. Much credit should be given Stiles, who was the originator of the Palmetto Pistol Club, for his performance with the .45 pistol. Jack beat Reeves in the rapid fire stage, tied him in the two others and came through to win the Expert class awards with a score in the .45 aggregate just three points under Reeves and topping all other Masters entered in the tournament.

In the Open Pistol Championship, with Reeves still copping top money in the Master class, Pablo Martinez, of the Policia National of Cuba, took top honors in the Expert class, closely pushed by Byron Engle of the Kansas City Police team, which was making its first appearance on the Palmetto range. Wayne Welty, an unattached civilian from Lincoln, Nebraska, headed the Sharpshooter division and another Nebraskan, A. L. Fisher of Ord, led the Marksmen.

In the Women's Championship, which was made up of the aggregate scores of the .22 and Center-fire matches, Helene Stiles took first place with 1644, followed by Florence Ingram, 1605; Rowena Stubbs, 1430; Flora Van Orden, 1379; and Janice Barwald, 1306.

The Kansas City Police had a Roman Holiday in the team matches, taking all but the .22 caliber event, which went to the Floridian Club of Tampa. The Naval Air Station team from Pensacola, under the guidance and coaching of Captain E. H. Hurst, came through with blazing colors to capture high honors in every event for service teams. The Cuban Police and Army divided foreign entry awards and left for the sunny Isle apparently well satisfied with their performances. But the classic touch was added by the ladies of the Palmetto Pistol Club who flashed right on through the .22 caliber event with a 1053 and outshined their club men's squad.

NATIONAL INTERCOLLEGIATE

The Army team, generally overlooked in pre-match selections for the National Intercollegiate Rifle Championship, finished where the Army should finish in this nation-wide battle March 28. A five-man cadet squad, firing the third highest team total in modern intercollegiate history, won both the Northeastern Sectional and National Championships on the U. S. Coast Guard Academy range at New London, Conn. The West Pointers' score, 1396 x 1500, edged Lehigh by three points.

It was a tough day all around for the favorites with the biggest collapse coming at Chicago where the supposedly powerful squads from the Universities of Minnesota and Iowa headed a field of ten teams firing on the University of Chicago range Friday. Defending National Champion Minnesota couldn't even retain its Mid-West title and Iowa's winning score out there, 1371, didn't cut much ice nationally.

On Saturday the seven other sectionals opened fire and Lehigh's veteran team (Smith, Hemphill, Boston, Kimberley, Scott), which won the eastern title and finished second nationally a year ago, turned in its 1393 early in the day and looked like the winner after such threats as Navy and Maryland failed to top that total. Then Army's score came in looking like this—

L. M. Watson, 269; R. A. Wise, 285; J. W. Baer, 279; H. F. Wehrle, 284; R. S. Beighton, 279. Total—1396 x 1500.

The East's big four, Lehigh, Maryland with 1389, Navy with 1381 and Penn State with 1379, took the next four spots in the national.

Furnishing one of the big surprises of the day, Alabama successfully defended its Southeastern crown at Atlanta and, at the same time, turned in a creditable 1374 which netted it sixth place nationally.

Competition for the individual title was even closer, if anything, before the laurels finally rested with Brooklyn Polytech's Howie Chandler. After watching his team get nowhere in the morning match at Annapolis, Chandler gave the boys something to shoot at when he posted a 98-94-94—286. This was equal to the winning total a year ago but outranks that figure on a higher standing score and stands as a record for the Intercollegiates. Even in his own sectional the Brooklyn boy was pressed hard as Navy's G. E. Slone and Penn State's H. Yount scored 285's. To make it closer Jack Newman of Minnesota and Wise of Army also fired 285's. But the issue was settled when the highest reports from other sectionals were of 283's and 279's. Chandler remained on top while on a ranking basis Newman, Slone, Yount and Wise trailed in that order.

Sectional team and individual winners were:

Northeastern (Fired at New London)—Army, 1396, team champions; R. A. Wise, Army, 285, individual champion.

Eastern (Fired at Annapolis)—Lehigh, 1393, team champions; H. R. Chandler, Brooklyn Poly, 286, individual champion.

Southeastern (Fired at Atlanta)—Alabama, 1374, team champions; John Symmes, Georgia, 283, individual champion.

Mid-West (Fired at Chicago)—Iowa, 1371, team champions; Jack Newman, Minnesota, 285, individual champion.

Prairie States (Fired at Wichita)—Wichita, 1352, team champions; Donald Werner, Creighton, 279, individual champion.

Southwest (Fired at Roswell)—New Mexico Military Institute, 1349, team champions; Lyman Wilcox, N. M. M. I., 272, individual champion.

Northwest (Fired at Corvallis)—Oregon State, 1361, team champions; James Canning, Idaho, 283, individual champion.

Far West (Fired at Los Angeles)—U. C. L. A., 1340, team champions; Curtis Riney, U. C. L. A., 279, individual champion.

CHICAGO DEWAR

With the recent commandeering of the Field House by the Navy for a basic school in communications, and Bartlett Gymnasium as a barracks, it looked for a time as though the traditional U. of C. "spring training" Indoor Dewar Matches would have to be cancelled this year, at the last moment.

However, through the diplomacy of Russ Wiles and of Athletic Director Metcalf, the Naval authorities finally agreed to give the embryo middies a week-end holiday so that the 7th Annual Championship Matches were conducted as scheduled, with over 500 competitors. This was slightly under the record registration of last year but most everyone shot the complete program so the total number of match entries were about 10% higher than for any previous year.

As is customary at these matches most everyone went on the line with two objectives, first, to win the match and secondly, to establish a new National record. And three new top scores were written into the record books! The outstanding performance was the 39x possible fired by Fred Spencer of Alton, Illinois, in winning the 50 yard Any Sights event. This was 2x's higher than the previous record in this event fired by Mrs. Marie Davis at Chicago last year and later tied by Mrs. Edna Donaldson at Cleveland.

In five of the six individual events the winning scores were either 1 or 2x's higher than last year. In addition to Spencer's near-perfect score, two additional new records were made by Jarvis TerHaar of Holland, Michigan, 400-37x's in the Any Sight Dewar, and by Ted Holm of Des Moines, Iowa, in the 100 yard Any Sights match, also 400-37x's.

Wee Willie Woodring, after winning the Grand Aggregate the two previous years without dropping a single point, finally fell victim to the idiosyncracies of a new gun and lost 4 points in trying to prove to himself that it was the gun's fault, and not his own or that of the ammunition. So he dropped to 5th place in the Grand Aggregate, relinquishing the title to Bill Schweitzer who came in by plane and left the same way after having tarried long enough to drop only 3 points, for the only 2397. Bob Miner of Chicago, Chet Jones of Albert Lea, Minnesota, Marsh Grosskopf of Marion, Wisconsin, and Woodring finished in that order with 2396's.

The beautiful new Bausch & Lomb Trophy for the Metallic Sight Aggregate went to the new champion in the Woodring family, Mrs. Kay, with 1199-77x's, a 4x lead over J. Russell Peachor of St. Louis. Schweitzer was third and Bill Woodring fourth, both two points down.

The Blackinton Trophy in the Any Sight Aggregate went to Grosskopf with a 1200-98x, only 2x's higher than the possibles fired by Jones and W. E. Seagly of Topeka, Indiana, with Jones outranking at the 100 Yard stages.

Outstanding performances were turned in by two collegians, Leonard Johnson of Ohio State and Gene Gleason of the University of Chicago who placed first and second in the Iron Sight Dewar, both with possibles of 33 and 28x's, respectively. And they shot consistently throughout the entire program, Johnson finishing 7th in the Grand Aggregate with Gleason 10th, both only 5 points down.

In the Grand Aggregate Frank DeWitt of Marshalltown, Iowa, was the high Sharpshooter, 2390-126x, and a newcomer from Holland, Michigan, Louis VanIngen took the high medal for Marksman, 2372-95x. The 100 Yard Metallic Sight event went to P. L. Ferguson of Waterloo, Iowa, outranking Wayne Ferguson of Jackson, Michigan, and H. W. North of Dayton, Ohio, all with 28x possibles.

In the Team Matches the Des Moines Rifle and Revolver Club No. 1 Team of Cooper, Smith, Johnson and Holm eked out a 3x win over the Blackhawk Hotshots, both with 1592, 113 and 110x's, respectively. The ably coached collegians from the University of Cincinnati placed both their teams for first and second in the Intercollegiate Dewar Team Championship, third place going to the hosts, the University of Chicago.

CLEVELAND DEWAR

The Second Annual Indoor Dewar got under way Friday, March 27th, in Cleveland's large underground exposition hall, and fulfilled its promise of being bigger and better than ever. Competitors totalled 277, including many top stars.

The hottest stick of the tournament was handled by R. E. Alexander, Warren, Ohio, who practically wrapped up the tourney and took it home with him. He took the Cuyahoga Civilian Marksmen's Association Trophy for the Grand Aggregate with 2199 x 2200, then without even pausing to take a deep breath he annexed the C. G. Hussey Trophy for the Iron Sight Aggregate with 1000 x 1000-69X's. Probably believing that all good things come in three's, he then won the Any Sight Dewar with a 400 x 400-33X, thus gaining possession of the J. A. Zimmer Trophy. All this kind of upset E. M. Rader of Lorain, Ohio, who proceeded to garner the 50-yard Any Sight match (400 x 400-37X). With this as a beginning, Rader banged out some more possibles and took the Any Sight Aggregate (1200 x 1200-99X), and got his second Trophy. Omar Krebs (no relation to the tent maker), won the Metallic Sight Dewar (400 x 400-37X) while other trophy winners were Steve Mylant, 100 Yd. Metallic (200 x 200-15X); R. K. Moore, 50 Yd. Metallic (400 x 400-35X); Edna Donaldson, 100 Yd. Any Sights (400 x 400-33X); Anna Lou Ballew, 50 Yd. Junior match (200 x 200-11X).

Mid-West Pistol: Verne Jubenville, Detroit Police Officer, won the Grand Aggregate and the Mid-West Pistol Trophy at the 17th Annual Ohio Pistol Championships conducted by the Ohio Rifle and Pistol Association on the Olentangy Village Range, Columbus, March 22. Jubenville took first place in the center-fire slow fire and three stage events and in the .22 caliber timed fire.

H. W. Grossglaus, Canton, won the Ohio Championship with the .22, finishing first in the slow fire and three stage matches. He also was second in the Grand Aggregate.

Central Kansas Small Bore: Remarkable four position shooting by Wallace Wilkins and his Wichita teammates featured this fifth annual gallery tourney February 28 and March 1 at McPherson.

Individually, Wilkins won everything except a pair of prone matches and his victory list at the end of the two days read like this: Any Sight Four Position, 392 x 400; Any Sight Off Hand, 186 x 200; Any Sight Aggregate, 777 x 800; Iron Sight Four Position, 381 x 400; Iron Sight Off Hand, 177 x 200; Iron Sight Aggregate, 758 x 800.

Beverly Gallery Rifle: Miss Hope Crombie, only girl in Massachusetts ever to win every medal offered for junior shooting and now just past the junior age limit, starred in the ninth annual Gallery Rifle Tournament of the Beverly (Massachusetts) Rifle and Revolver Club on February 22 and 23. In a field of 82 competitors, Miss Crombie was high Massachusetts competitor in the open prone event, she won the ladies' event, and she was the only host town competitor to win a medal in open scratch events.

In an individual program composed of four re-entry matches, W. B. Redden of Portsmouth, New Hampshire, Gerald V. Morrell of Marlow, New Hampshire, and Ora Smith of Keene, New Hampshire, were winners beside Miss Crombie.

Charlotte (N. C.) Gallery: Tire rationing failed to stop 64 North Carolinians, South Carolinians, Georgians and Virginians from getting to Charlotte somehow to put in their licks at this second annual two day rifle and pistol shoot.

The first day's shooting was devoted to the handgun and William E. Fennell of Gainesville, Ga., was the big winner with an aggregate of 1095 of a possible 1200 points.

On rifle day, Gilbert Moriconi of Richmond, Va., cleaned up with an aggregate of 924 of a possible 1,000 points, outshooting L. W. Bolt of Greenville, S. C. by 20 points. Moriconi won the two position metallic and one of the two position any sight matches with 188 each,

METROPOLITAN RIFLE

Jack Lacy has done it again! He took the New York City Metropolitan Championship for the second time on February 22, this time with 500-43x, to become the only man to win the coveted title twice in a row.

But the big thrill of the match was when "Old Master" Harry Pope, president of the Metropolitan Rifle League, presented little 10-year-old Audrey Bockmann of Ridgefield, N. J., with the second place medal for her 500 with 41 x's.

Audrey Bockmann

Audrey had been home from school (fifth grade) with a cold for three days and didn't show up with her mother until late in the day. Like the veteran shooter that she is (she's been shooting since she was six and competing with adults for a year) she sat quietly for a while and then went downstairs to shoot. Several of us called good luck to her as we sat around matching alibis, cleaning our guns and wondering who would be the new champion. Finally—

"There's Audrey. How did it go, Audrey?"

"I think I went clean," she answered in an awed little voice.

And how! "Clean" with 41 x's.

Before the range officer could say "Pick up your brass," the news was all over the room—"I think Audrey's the new champion but don't say a word until it's definite." We forgot that Jack Lacy was still shooting.

So that's how it ended, Jack the Champion and Little Audrey the runner-up.

Five more men shot 500's. In order of place they were: Arthur Jackson, 40 x's; Jack Stephenson, 40 x's; Dr. Irwin Tekulsky, 39 x's, Tito Balestriri, 37 x's, and Jim Lacy, 36 x's.—Eleanor Dunn.

Portland Gallery Rifle: Guy Jones, Portland, Oregon, Master, closed fast to win aggregate honors in the first annual registered gallery tournament of the Portland Rifle Club January 18. Sixty competitors turned out for the three-match program.

Jones' victory with a 578 x 600 total was by a two point margin over Lewis Byrne, also of Portland, and Harold Thurston, Newport Expert, after he had trailed in the early going. William Schlitzkus copped the opening prone event and Thurston made his bid with a triumph in the prone-standing. Jones, second and fourth in those two matches, took the standing event with 187 as Thurston sank to a 183 that cost him the aggregate.

Kansas State Pistol: The second annual Kansas State Indoor Pistol Tournament was held February 15th at the Topeka Police Department Range, though continuous cold rain cut attendance considerably.

Garfield Huddleston of Kansas City, Missouri, almost made a clean sweep of the matches, winning five of the six fired matches and all three of the aggregates. Huddleston placed second in the other match, .22 Timed Fire, with a score of 196 against 197 fired by William B. Kirkpatrick of Topeka. Huddleston's winning scores in the other five matches were: .22 Slow Fire—182, .22 Rapid Fire—193, Center Fire Slow Fire—178, Center Fire Timed Fire—190, Center Fire Rapid Fire—183.

Niagara Frontier Small Bore: Not even a famous Buffalo mid-winter blizzard could cool off Northeastern hot shots or dampen the enthusiasm of the fellows in the lower classes, and 150 competitors turned out for this seventh annual tourney February 7 and 8.

It was a tough two days for the men folk, however, and despite some sensational shooting in the eight events fired they finally bowed to the skill of Eleanor Dunn and Melba Berry in the aggregates. Miss Dunn, with an iron sight aggregate of 799-43x over the 100 yard course in the 74th Regiment N. Y. G. Armory, edged Jack Wark by a point and Mrs. Berry, firing an 800 possible with 58 x's, won the any sight aggregate from Jack Lacy by the same margin. Earlier she had grabbed the 40 shot Any Sight Championship by outranking Otto Kolb and William Sammons. All had scores of 400-29x. Lacy was the winner of the 40-shot Iron Sight Championship. Wark, Sammons and Lacy divided other individual contests.

Oregon State Rifle: With fifty-eight entries, coming from as far as 300 miles away and from all sections of Oregon and Southern and Eastern Washington, the Oregon State Rifle and Pistol Association held its Fifth Annual Registered Tournament on February 15, 1942. The course fired included 20 shots prone, 10 shots prone and standing, and 20 shots standing, making up a series of three matches with the aggregate constituting a fourth. High aggregate gold medal was won by Guy Jones of the Gresham Rifle Club, Gresham, Oregon, with a score of 586 of a possible 600 points. Harold Jones of Astoria, Oregon, took the second place silver trophy with an aggregate of 574. Class aggregate winners were: George Clapp, Pasco, Washington, for the Masters with 572, Harold Printz of Newport, Oregon, the Experts with 567, H. Reutter of Portland, Oregon, 548 for the Sharpshooters Class and James Wilkerson of Portland the Marksmen with 528.

SEND FOR PROGRAMS

Everything possible is being done to keep the Coming Events column up-to-date each month, but under present circumstances it is sometimes impossible to carry tournament cancellation notices. This is particularly true when cancellation has to be made on very short notice.

To avoid unnecessary travel all competitors are cautioned to request programs of tournaments they are planning to attend. Sponsors, in turn, are cautioned to add names and addresses from all inquiries to their mailing list. Then, should cancellation be necessary, notification can be made. This added service by sponsors will be well repaid in the future when operations get back to normal.

NRA GALLERY LEAGUES

RIFLE

Central States Rifle League (Final)—Lena American Legion Rifle Club, 9–0; Danville Rifle & Pistol Club, 8–1; Forest Park Rod & Gun Club, 5–4; Ashland Rifle & Pistol Club Team #2, 5–4; National Cash Register Rifle Club Team #2, 5–4; Austin Rifle Club Team #2, 4–4; Legion Rifle Club of Lee Center, 3–6; Coca-Cola Gun Club, 3–6; St. Mary of Redford Gun Club, 1–8; Woodstock Rifle Club Team #2, 0–8.

Pennsylvania-West Virginia & Ohio Rifle League (Final)—Altoona Rifle & Pistol Club, 9–0; Allegheny County Rifle Club, 8–1; East Palestine Rifle Club, 7–2; Ashland Rifle & Pistol Club Team #1, 6–3; Amboy Rifle Club, 4–5; Robinson Clay Products Rifle Club, 4–5; Coshocton Rifle & Pistol Club, 4–5; Cornplanter Gun Club Team #1, 2–7; Mason-Dixon Rifle Club Team #1, 1–8; Norka Rifle & Pistol Club, 0–9.

Far West Rifle League (Final)—Boulder Rifle & Pistol Club, 8–0; Grangeville Gun Club, 7–1; Wallace Rifle Club Team #1, 6–2; Pendleton Rifle & Pistol Club, 5–3; Monte Vista Rifle & Pistol Club, 4–4; Provo Post #13 Amer. Leg. Rifle Club Team #2, 3–5; Elk City Gun Club, 2–6; Timberline Rifle Club, 1–7; Corpus Christi Pistol & Rifle Club, 0–8.

Michigan-Ohio & Indiana Rifle League (Final)—National Cash Register Rifle Club Team #1, 9–0; Detroit Gun Club, 8–1; Lafayette Post #11 Amer. Leg. Team, 7–2; Bay City Rifle Club, 6–3; Greensburg Gun Club, 4–4; Capitol City Rifle Club, 3–6; Lincoln Park Gun Club, 2–7; American Rifle & Pistol Club, 2–7; Central City Gun Club, 2–7; Grand Rapids Rifle & Pistol Club, 1–7.

Mountain States Rifle League (Final)—Murray Rifle & Revolver Club, 7–0; Legion Post #79 Rifle Club Team #1, 6–1; Provo Post #13 Amer. Leg. Rifle Club Team #1, 4–3; Bowman Rifle & Pistol Club, 4–3; Ekalaka Rifle Club Team #2, 3–4; Bonanza Rifle Club, 3–4; Harney County Rifle & Pistol Club Team #2, 1–6; Bellingham Amer. Leg. Rifle Club Team #2, 0–7.

California-Utah Rifle League (Final)—La Brea Rifle Club, 8–0; Searles Lake Rifle Club, 7–1; Tule Lake Rifle Club, 5–2; Tangle & Twist Fishing Club, 4–4; Bishop Rifle & Pistol Club, 4–4; Delta Rifle Club, 3–5; Engineers Rifle & Revolver Club, 2–6; San Pablo Avenue Sportsmen, 1–5; Legion Post #79 Rifle Club Team #2, 0–7.

California-Washington & Oregon Rifle League (Final)—Gresham Rifle Club, 6–1; Grand Coulee Gun Club, 6–2; Portland Rifle Club, 5–2; Toledo Civilian Rifle Club, 4–4; Harney County Rifle & Pistol Club Team #1, 4–4; Scott Valley Rifle & Pistol Club, 3–5; Rose City Legion Rifle Club, 3–5; Bellingham Amer. Leg. Rifle Club Team #1, 2–6; Longview Rifle Club, 2–6.

Pennsylvania-West Virginia & New Jersey Rifle League (Final)—Mason-Dixon Rifle Club Team #2, 7–1; Comanche Rifle Club, 7–1; Danville Rifle Club, 7–1; Clearfield Creek Rifle & Pistol Club, 5–3; Mason-Dixon Rifle Club Team #3, 3–5; Ingersoll-Rand Rifle Club Team #1, 3–5; Cornplanter Gun Club Team #2, 2–6; Ingersoll-Rand Rifle Club Team #2, 1–7; Glen Ridge Rifle Club, 1–7.

Southern Rifle League (Final)—Charlotte Rifle & Pistol Club, 9–0; Volunteer Rifle & Pistol Club, 8–1; Greenville Rifle Club Team #1, 6–3; Atlanta Rifle Club, 6–3; Muscle Shoals Rifle & Pistol Club, 5–4; Birmingham Rifle & Pistol Club, 5–4; Cherokee Rifle & Pistol Club, 2–7; Gainesville Rifle & Pistol Club, 2–6; Chickasaw Rifle & Pistol Club, 1–8; Greenville Rifle Club Team #2, 0–8.

COMING EVENTS

The registered tournaments are indicated as follows: B—State Championships or large District Matches; C—Local. *Unregistered* matches are not coded. Classification of competitors for prize awards indicated by asterisk—C*, etc.

RIFLE

MAY

3 Arizona (C*), Spring Small Bore, Phoenix. Charles Sigala, 305 E. 6th St., Tempe.

9–10 New Mexico, State .30 Caliber, Roswell. L. D. Wilson, Santa Fe.

10 Tennessee (C*), State Small Bore, Knoxville. Robert Monroe, % T. V. A., Union Building, Knoxville.

10 California, 9th Annual Grimsley, Stockton. Leslie G. Little, 1020 N. Van Buren.

10 Washington (C*), Eastern Rifle, Spokane. Mrs. M. E. Holt, 4118 N. Howard St.

10 Texas (C*), Bayou Rifle, Houston. Charles F. Hanson, 811 Shell Bldg., Houston.

10 California (C*), Northern Small Bore, Yreka. Paul Dodge, Lane St., Yreka.

10 California (C*), Far West Small Bore, Glendale. J. E. Cornell, 662 Arden Avenue.

16–17 Ohio, 7th Annual Muzzle-Loading, Lima. R. G. Patterson, 334 N. Spring St.

16–17 Louisiana (B*), Small Bore Rifle, Baton Rouge. E. A. Saliers, University of Louisiana, Baton Rouge.

16–17 Alabama (B*), State Small Bore, Birmingham. S. B. Bolling, 632 Alabama Ave.

16–17 Florida, State .30 Caliber, Winter Haven. George N. Pulley, P. O. Box 13.

17 Idaho (B*), Idaho Small Bore, Boise. Rupert Shaw, 2025 Harrison Blvd., Boise.

17 Oregon (C*), Annual Small Bore, Portland. E. L. Plogg, 1911 S. E. Ankeny St.

17 Pennsylvania (C*), Spring Rifle, Altoona. R. B. Barry, 402 2nd Avenue, Altoona.

17 Wisconsin, Small Bore, Janesville. James D. Wenstrom, 217 N. Walnut, Janesville.

17 Ohio (C*), Annual Spring, Marietta. H. M. Meiser, 621 Seventh St., Marietta.

17 New York, Briar Rod & Gun Club, Woodbury. James A. West, 179-26 143rd Ave., Springfield.

17 Indiana (C*), Spring Rifle, Vincennes. Marvin M. Parr, 20 W. St. Clair St., Vincennes.

23 North Carolina (C*), Gastonia Rifle, Gastonia. H. M. Van Sleen, Box 214, Gastonia.

23–24 Pennsylvania (C*), Vandergrift Sportsman, Vandergrift. George W. Rupp, 1029 Hancock Avenue, Vandergrift.

24 Wisconsin, Shooters Jamboree, Racine. Oliver Moody, 5527 N. 35th St., Milwaukee.

24 Pennsylvania (C*), Late Spring Rifle, Allentown. Alfred M. Newhard, 111 E. Susquehanna St., Allentown.

24 Iowa (C*), Restricted Rifle, Des Moines. G. G. Cooper, 816 Telephone Bldg.

24 Indiana (B*), Mid-West Rifle, Lafayette. C. B. Gildersleeve, Lafayette.

29–30–31 Texas, State Big Bore, Laredo. John F. Callan, 405 East 30th St., Austin.

30 Pennsylvania, Zelienople Rifle Club, Harmony. Roy McWithey, Liberty Street.

30 Pennsylvania (C*), 2nd Annual Memorial Day, Harmarville. James Affleck, Box 2038, Pittsburgh.

30–31 New Jersey (B*), Sea Girt Small Bore, Sea Girt. Charles J. Walters, 497 Cornell St., Perth Amboy.

30–31 California, State .30 Caliber, Sacramento. James Pedroni, 205 Salinas National Bank Bldg., Salinas.

30–31 Oregon (B*), Medford Rifle, Medford. Ivan K. Waddell, P. O. Box 1046, Medford.

31 New York (C*), Spring Small Bore, Elmira. Neil Wheeler, Hendy Avenue, Elmira.

31 Utah (C*), Utah Rifle Tournament, Salt Lake City. Bruce H. Lyman, 455 N. 4th East, Provo.

31 Wisconsin, Wisconsin Junior, Racine. Oliver Moody, 5527 N. 35th St., Milwaukee.

PISTOL

3 New York (C*), Registered Gallery, Troy. A. Watson, 516 Second St., Troy.

3 Washington (*), Buddy League, Seattle. Walter F. Day, Police Department, Seattle.

9–10 Texas, Southwest Pistol Tournament. V. A. Moor, 208 N. Akard St., Dallas.

10 Arizona (B), State Pistol, Tucson. Howard Hathaway, P. O. Bin 71, Tucson.

16–17 West Virginia (C*), Spring Pistol, Richwood. C. R. Simons, Richwood.

17 New York (B*), State Pistol, Albany. O. E. Whitbeck, 122 Morris St., Albany.

17 Illinois (C*), Sheridan Pistol, Deerfield. B. C. Meyer, 919 Forest Ave., Deerfield.

24 Washington (*), Buddy League, Seattle. Walter F. Day, Police Headquarters, Seattle.

24 New Jersey (C*), Spring Pistol, Trenton. William Lewis, P. O. Box 1420, Trenton.

24 Oregon (C*), Spring Pistol, Portland. John S. Altmanns, 405 North Stanton St., Portland.

JUNE

6–7 Georgia (C*), Atlanta Metropolitan, Atlanta. C. L. Jackson, 50 Terrace Drive, N. E., Atlanta.

7 Colorado (C), Colorado Small Bore, Denver. Henry Kircher, 3030 Bellaire St., Denver.

7 Wisconsin (C*), County Line Small Bore, Racine. Oliver J. Moody, 5527 N. 35th St., Milwaukee.

7 West Virginia, Outdoor Rifle, Wheeling. Gaylor Hess, 1100 Elm Street, Bridgeport.

7 Pennsylvania (C*), Spring Rifle, Brommall. Lawrence Oster, 2800 Township Line Road, Llanerch.

7 New York (C*), Forbes Rifle, Nassau. Henry W. Ristau, 38 Walker St., Rensselaer.

7 Missouri (C*), Heart of America Small Bore, North Kansas City. T. A. Bradley, 6121 Olive, Kansas City.

7 Minnesota (C*), Annual Rifle, Albert Lea. Art. M. Jenson, 217 S. Broadway, Albert Lea.

7 Indiana (C*), Registered Rifle, Anderson. Eugene Martin, 227 W. 38th St., Anderson.

7 California (C*), Western Small Bore, Richmond. E. J. Martin, 325 12th Street.

13–14 Oklahoma (B*), Magic Empire, Tulsa. Ray B. Whitaker, 114 South Detroit St.

14 Pennsylvania (C*), Northern Tier, Galeton. Basil Tuller, 47 Germania St., Galeton.

14 Oregon (C*), Columbia-Willamette, Portland. E. L. Plogg, 1911 S. E. Ankeney St.

Montana Rifle League (Final)—Belgrade Rifle Club Team #1, 8–0; Whitefish Rifle Club, 7–1; Anaconda Rifle & Pistol Club, 6–2; Manhattan Rifle Club, 5–3; Glendive Rifle & Pistol Club, 4–4; Hardin Rifle Club, 3–5; Terry Rifle Club, 2–6; Baker Rifle Club, 1–7; Havre Rifle & Pistol Club, 0–8.

Massachusetts & New Hampshire Rifle League (Final)—Piscataqua Rifle & Revolver Club, 8–1; East Warren Rod & Gun Club, 8–1; Old South Rifle Club, 7–2; Beverly Rifle & Revolver Club, 7–2; Adams Gun Club, 5–4; Rockland Revolver & Rifle Club, 4–5; A. P. Gardner Rifle & Pistol Club, 3–6; Hennicker, Rifle Club, 2–7; New London Rifle & Pistol Club, 1–8; Topsfield Rifle Club, 0–9.

Eastern Rifle League (Final)—Manchester Amer. Legion Rifle Club, 9–0; Middletown Rifle Club, 8–1; Barre Rifle & Pistol Club Team #1, 6–3; Burlington Rifle & Pistol Club Team #2, 6–3; Varnum Continental Rifle Ass'n Team #1, 5–4; Morrisville Rifle & Pistol Club, 4—5; Varnum Continental Rifle Ass'n Team #2, 3–6; Vergennes Rifle & Pistol Club, 2–7; Barre Rifle & Pistol Club Team #2, 1–8; Burlington Rifle & Pistol Club Team #1, 1–8.

Mid-Western Rifle League (Final)—Austin Rifle Club Team #1, 7–0; Washburn Rifle Club, 7–1; Woodstock Rifle Club Team #1, 6–2; Post Office Rifle & Pistol Club, 3–4; Fargo Rifle Club, 3–4; Lisbon Rifle Club, 2–4; Eighty-Five Rifle Club, 1–5; Hastings Rifle Club, 0–7.

#1 New York State Rifle League (Final)—Canandaigua Rifle & Revolver Club Team #1, 9–0; Rochester Rifle Club Team #1, 7–1; Selkirk Rifle & Pistol Club, 6–2; Sag Harbor Rifle Club, 5–4; Ad Press Rifle Club, 2–6; Pleasantville Rifle Club, 2–6; Gowanda Rifle Club Team #1, 3–5; Croton River Riflle Club, 3–5; Fort Stanwix Rifle & Revolver Club Team #1, 1–7.

75' Rifle League (Final)—Maplewood Rifle Club, 9–0; Greenfield Rifle Club Team #1, 7–2; Boston Rifle & Revolver Club, 7–2; Bergen Rangers Rifle & Pistol Club, 6–3; Leyden Rifle Club, 5–4; Newark Rifle & Pistol Club, 4–5; North Kern Rifle & Pistol Club Team #1, 3–6; Greenfield Rifle Club Team #2, 3–6; North Kern Rifle & Pistol Club Team #2, 1–8; Brockton Rifle & Revolver Ass'n, 0–9.

PISTOL

New York & New Hampshire Pistol League (Final)—Piscataqua Rifle & Revolver Club, 9–0; Citizens Rifle & Revolver Club Team #1, 7–2; Roslyn Rifle & Revolver Club Team #1, 7–2; Attica Prison Guards, 5–4; New York C. A. A. Rifle & Pistol Club, 5–4; Ithaca Revolver & Pistol Club, 4–5; Elmira Rifle & Pistol Club, 4–5; Fort Stanwix Rifle & Revolver Club, 3–6; New York Telephone Gun Club, 0–9; Croton River Rifle Club, 0–9.

Eastern Pistol League (Final)—Rockland Revolver & Rifle Club, 9–0; Gardner Rifle & Pistol Club Team #1, 8–1; Burlington Rifle & Pistol Club Team #2, 7–2; Citizens Rifle & Revolver Club Team #2, 6–3; Burlington Rifle & Pistol Club Team #1, 5–4; Towanda Rifle & Pistol Club, 4–5; Fall River Rod & Gun Club, 3–6; Sportsman Revolver Club, 3–6; Gardner Rifle & Pistol Club Team #2, 2–7; Roslyn Rifle & Revolver Club Team #2, 0–9.

Mountain States Pistol League (Final)—El Paso Pistol Club, 9–0; Corpus Christi Pistol & Rifle Club, 8–1; Capitol Pistol Club Team #2, 7–2; Anaconda Rifle & Pistol Club, 6–3; Havre Rifle & Pistol Club, 5–4; Grangeville Gun Club, 3–5; Monte Vista Rifle & Pistol Club, 3–6; Elk City Gun Club, 1–7; Gainesville Rifle & Pistol Club, 1–8; Legion Post #79, 1–8.

Northern Tier Pistol League (Final)—Cedar Falls Pistol Club, 9–0; St. Paul Rifle & Pistol Shooters' Club, 8–1; Virginia Rifle & Pistol Club, 6–3; Flint Rifle & Pistol Club, 6–3; Grand Rapids Rifle & Pistol Club, 4–5; Kalamazoo Revolver Club Team #1, 4–5; Boise Rifle & Pistol Club, 3–6; Ashland Rifle & Pistol Club Team #1, 3–6; Bay City Rifle Club, 2–7; Roslyn Rifle & Revolver Club Team #3, 0–9.

Central Pistol League (Final)—Gainesville Rifle & Pistol Club Team #1, 10–0; Iroquois Pistol Club, 8–2; Ashland Rifle & Pistol Club Team #2, 6–4; Birmingham Rifle & Pistol Club, 2–8; Volunteer Rifle & Pistol Club, 2–8; Kalamazoo Revolver Club Team #2, 2–8.

N. R. A. Three Stage 20 Yard Pistol League (Final)—Forester Rod & Gun Club, 9–1; Tamalpais Revolver Club Team #2, 8–2; Post Office Rifle & Pistol Club, 6–4; Atlanta Rifle Club, 3–7; E. St. Louis Rifle & Pistol Club Team #1, 2–8; Berkeley Revolver Club, 2–8.

Arrowhead Pistol League—Final standings. Lake of the Woods, 8–0; Northwestern, 6–2; Virginia, 4–4; Cloquet, 1–7; Ely, 1–7.

Tri-County .38 Caliber Pistol League—Aurora, 3–6; Brinks, 2–6; Edison, 2–6; Humboldt, 8–2; Hyde Pk. "Y", 8–0; Lakeside Press, 1–7; Lombard, 5–4; Oak Park Police, 5–2; Park Dist. Oak Pk., 5–4; River Forest Pol., 6–2; Teletype, 1–7.

14 **New York (C*)**, 5th Annual Small Bore, Glens Falls. James H. G. Morrison, Box 63, Glens Falls.

14 **Massachusetts (C)**, Registered Rifle, Shelburne Falls. Emory C. Broadhurst, Shelburne Falls.

14 **Maryland**, Pointers Rifle, Sparrows Point. James T. Ambrose, Jr., 615 E St., Sparrows Point.

14 **Illinois (C*)**, Sheridan Club, Deerfield. B. C. Meyer, 919 Forest Ave., Deerfield.

20–21 **Texas (B*)**, State Small Bore, Austin. John F. Callan, 405 East 30th St., Austin.

20–21 **Iowa (B*)**, State Small Bore, Des Moines. G. G. Cooper, 816 Telephone Bldg.

21 **Colorado (B*)**, State Small Bore, Denver. L. F. Markle, 1006 Olive St., Denver.

21 **Wisconsin**, County Line League .30 Caliber, Racine. Oliver Moody, 5527 N. 35th St., Milwaukee.

21 **New York (C*)**, Summer Rifle, Oneida. Donald D. Devitt, State Police, Oneida.

21 **Pennsylvania (C*)**, Philadelphia Marksman's League, Philadelphia. Harold W. Walcoby, 114 Hartrauft Ave., Norristown.

21 **New York (C*)**, Long Island Association Small Bore, Woodbury. Hubert B. Guckel, 1511 150th, Whitestone.

28 **Oregon (C*)**, Registered Rifle, Eugene. Arthur F. Richards, 301 Lincoln, Eugene.

28 **Montana (C*)**, Northwest Small Bore, Anaconda. E. J. Perro, 124 W. Park Ave.

28 **New York (C*)**, Salamanca Rifle, Salamanca. Raymond L. Abbott, 233 Highland Ave., Salamanca.

PISTOL

6–7 **New York**, Defense Stamp, Poughkeepsie. Erven Meddaugh, City Route 31.

7 **Michigan (C*)**, Spring Pistol, Jackson. R. V. Gray, P. O. Box 275, Jackson.

7 **Illinois (C*)**, Sheridan Pistol, Deerfield. B. C. Meyer, 919 Forest Ave., Deerfield.

13–14 **Texas (B*)**, State Pistol, Austin. John F. Callan, 405 East 30th St., Austin.

13–14 **Kansas (B*)**, State Pistol, Wichita. Howard A. Wagner, Syracuse.

13–14 **New York**, Defense Stamp, Poughkeepsie. Erven Meddaugh, City Route 31.

14 **Washington (*)**, Buddy League, Seattle. Walter F. Day, Police Dept., Seattle.

14 **Michigan (C*)**, First Annual Pistol, Ann Arbor. Lt. C. M. Enkemann, Police Headquarters, Ann Arbor.

20–21 **Illinois (C*)**, Summer Pistol, Lincolnwood. Joseph J. Byron, 7042 Keeler Ave.

21 **Oregon (B*)**, State Pistol, Portland. John S. Altmanns, 405 N. Stanton St., Portland.

21 **Maryland (C*)**, Summer Pistol, Sparrows Point. Marcus H. Miles, Chief of Police.

28 **Michigan (B*)**, State Pistol, Detroit. Lt. Marvin Driver, Police Department, Detroit.

28 **Pennsylvania (C*)**, Marksman's League, Philadelphia. Harold W. Walcoby, 114 Hartrauft Ave., Norristown.

JULY

3–4 **South Carolina (B*)**, State Small Bore, Greenville. L. W. Bolt, 1415 Laurens Road.

4–5 **Illinois (B*)**, Sheridan Club Rifle, Deerfield. B. C. Meyer, 919 Forest Ave.

11–12 **California (B*)**, State Small Bore, Richmond. James Pedroni, 205 Salinas National Bank Bldg., Salinas.

11–12 **West Virginia (C*)**, Registered Rifle, Parkersburg. R. A. Simpson, 1407 Spring St., Parkersburg.

11–12 **New York (B*)**, Southern Tier Small Bore, Elmira. Neil Wheeler, Hendy Avenue, Elmira.

11–12 **Illinois (B*)**, Blackhawk Rifle, Aurora. Cora Converse, Box 153, Oak Glen.

12 **Minnesota (C*)**, Registered Rifle, Albert Lea. R. Gunderson, 1100 W. College St., Austin.

12 **New Mexico (C)**, Santa Fe Small Bore, Santa Fe. L. D. Wilson, 119 E. Buena Vista Ave., Santa Fe.

18–19 **Pennsylvania (B*)**, Vandergrift-Carnegie, Vandergrift. R. M. Walbeck, 245 Sherman Avenue, Vandergrift.

19 **Oregon (C*)**, Registered Rifle, Portland. Dr. C. A. Lewis, Weatherly Bldg., Portland.

19 **New York (C*)**, Annual Registered Rifle, Rensselaer. **(Cancelled).**

19 **Kansas (C*)**, Sunflower Small Bore, Topeka. L. E. Brooks, Sr., 1419 Van Buren St., Topeka.

19 **Indiana (B*)**, Indiana State Small Bore, Kokomo. John F. Holmes, 400 N. 4th St., Lafayette.

26 **Indiana (C*)**, Muncie Rifle, Muncie. Fred Shroyer, Muncie.

25–26 **Wisconsin**, State .30 Caliber, Racine. Oliver Moody, 5527 N. 35th St. Milwaukee.

26 **Wisconsin**, Annual Westby-Viroqua, Westby. Henry A. Nerison, Westby.

PISTOL

4–5 **Washington**, Summer Pistol, Coulee Dam. Richard H. Humphreys, Box 426, Coulee Dam.

12 **Washington (*)**, Buddy League. Walter F. Day, Police Department, Seattle.

12 **Illinois (C*)**, Sheridan Pistol, Deerfield. B. C. Meyer, 919 Forest Ave., Deerfield.

12 **Iowa (B*)**, State Pistol, Mason City. G. G. Cooper, 816 Telephone Bldg., Des Moines.

19 **Colorado (B*)**, State Pistol, Denver. L. F. Markle, 1006 Olive Street, Denver.

19 **Tennessee (B*)**, State Pistol, Nashville. C. B. Mason, 1500 N. 5th St., Nashville.

25–26 **California (B*)**, State Pistol. James Pedroni, 205 Salinas National Bank Building, Salinas.

26 **Illinois (C*)**, Tri-County Pistol League, Lincolnwood. R. W. Maloney, 5553 W. Grace St., Chicago.

Tri-County .22 Caliber Pistol League—Aurora, 4–6; Brinks, 1–8; Canco, 2–8; Edison, 3–6; Humboldt, 8–1; Hyde Pk. "Y", 8–0; Lakeside Press, 9–0; Lombard, 3–6; Minute Men, 6–4; Oak Pk. Rev., 1–7; Park Dist. Oak Pk., 3–6; River Forest Police, 4–6.

Hawkeye Pistol League #1—Cedar Falls #1, 10–2; Davenport #1, 8–4; Fort Dodge #2, 8–4; Mason City #2, 8–4; Centerville, 7–5; M'town #3, 5–7; Ft. Madison, 1–11; Algona, 1–11.

CHALLENGES

The Tennex Gun Club of Harrison, N. J., would like postal matches over either the 50 or 75 foot course, 20 shots—10 prone and 10 offhand. Write to Vincent E. Diak, 622 Warren St., Harrison, N. J.

DOPE BAG ☆ ☆ ☆ Conducted by F. C. NESS

THIS MONTH:

Origin of the .30-'06 · Factory Ballistics Handload Ballistics · Bullet Drop Dope .276 Pedersen · Special Targets · Hornet Game Loads · Trade Dope · Letters

Wins Carved Ivory Stocks. D. F. Stirewalt of the Cottonwood Rifle & Pistol Club of Cottonwood, Calif., was the first member to send in fifteen new memberships for the award donated by Frank Mittermeier, as announced in the Dope Bag of November, 1941. Mr. Stirewalt selected as his prize a beautiful pair of deeply carved ivory stocks for his Officers' Model Colt, and he told us he is greatly pleased with them.

* * *

.30-'06. In our cartridge series, carried on progressively in the Dope Bag over the past year (beginning with the .22 caliber in the April 1940 issue), we finally reach the .308-inch bullet diameter or .30-caliber cartridges. In .30-caliber the most important cartridge is the .30-'06. Today it is the most important rifle cartridge employed in the current war as it is almost in universal use by the United Nations. Commercially, the sporting and target ammunition of this caliber is variously designated as .30-'06, .30 U. S. Government or .30 Government, while the original military cartridge was identified as the Cartridge, Ball, Caliber .30, Model of 1906. Twenty years after its adoption and long after World War I, this was supplanted for Service use by the caliber .30 M1 Service cartridge which latter recently gave way to the current caliber .30 M2 Service cartridge.

Our .30-'06 cartridge had a purely military origin and was developed by our Ordnance Department. According to Colonel Whelen, its development was inspired, during the Spanish-American War, by the Spanish 7-mm. Mauser whose muzzle velocity of 2300 f.-s. gave its 175-grain bullet a pleasingly flat trajectory as compared with that of our own .30 caliber 220-grain blunt-nose bullet fired from the .30-40 Krag rifle (Rifle, .30 caliber, Model 1898) which was our Service arm of that time. The Cartridge, ball, caliber .30, Model 1898 had a rimmed case, while the admired ammunition of the Spanish Mauser caliber 7-mm. had a rimless case which feature also found favor in the eyes of our Ordnance experts of that period. Undoubtedly, the rimless 7.9-mm. or 8-mm. German Service cartridge also had its influence, because Paul Mauser's rifle action was under Ordnance study during the same period of development.

When the new U. S. Springfield rifle, caliber .30, Model 1903, came out in 1905 (as a modified Mauser) its cartridge was the caliber .30, Model 1903, a rimless bottle-neck cartridge loaded with a blunt-nose (Krag-type) 220-grain bullet and to a muzzle velocity of about 2200 f.-s. The barrel length then was 24 inches. At the outset, this new cartridge had a heavier load of powder which gave it a higher muzzle velocity of about 2350 f.-s., because the aim of the Ordnance engineers was to equal or surpass the ballistics and particularly the flat trajectory of the Spanish Mauser caliber 7-mm. ammunition. However, this heavier load was found to have two undesirable effects; heavy recoil which disturbed the shooter unduly, and an unduly rapid rate of erosion of the rifle bore. Consequently, its powder charge was reduced until the muzzle velocity was about 2200 f.-s. with the same bullet.

In the meanwhile, the Germans had come out with their improved "S"-bullet, a Spitzer or sharply-pointed bullet weighing 154 grains. The Germans had also changed from their weaker "Kar 1888" and "Gew. 88" Service arm (in the general category of our Krag) to the "Gewehr 1898", the stronger Mauser action still in use today. The German rimless 8-mm. Mauser ammunition at that time was loaded with a 227-grain blunt-nose bullet and to a muzzle-velocity of about 2100 f.-s. The "Gewehr 1898" used this load and also the new improved cartridge with the 154-grain Spitzer bullet. The new load was about 48 grains of nitro-cellulose powder which gave the lighter pointed bullet well over 2800 f.-s., a tremendous gain in muzzle velocity. The "Gewehr 1898" action was adopted in principle by our Ordnance people in designing our Springfield rifle, Model 1903, and the Mauser patentees were paid some $200,000.00 for the privilege.

When the German "Spitzer Geschoss" and its 2800 f.-s. velocity appeared on the scene we had to do something about it at once. This our Ordnance Department did, by bringing out a pointed bullet of 150 grains and a cartridge loaded with it to a muzzle-velocity of 2700 f.-s. and known as Cartridge, Ball, Caliber .30, Model 1906. This is our well-known Model-1906 ammunition, or .30-'06, which supplanted the Model 1903 ammunition for the Model 1903 rifle only a year after the rifle had been first issued. To properly take the new Model 1906 cartridge, the rifles which had been issued in 1905 were recalled and rechambered. There was no change in the head, body, or shoulder of the Model 1903 cartridge case, but the neck was made about ⅛ inch shorter for the lighter and shorter Model 1906 bullet. The old barrels were removed and cut off one thread at the breech end, or nearly ¼ inch, to permit rethreating for the smaller or more slender ogive of the new pointed bullet. That accounts for the odd barrel length of 23.79 inches of all our Model 1903 Springfield rifles issued since the Model 1906 ammunition, or .30-'06 cartridge, was adopted.

* * *

Bullet drop as given in the tables in the Dope Bag is consistently based on the true trajectory which, from muzzle to target, is always below the line of departure, meaning the bore-line projected as fired and not as aimed. The relative impacts also are given for two ranges because such practical dope is always interesting. However, relative impacts are misleading because they give only arbitrary parts of the trajectory and always in relation to the sight line as aimed. Whereas the true trajectory remains rigid and unchanged, once established, the relative impacts may be juggled all over the place and invariably do change with every change in the sight-height above the bore or with every change in the angle of elevation at any given sight height.

Without any appreciable change in the shooting outfit and load, impacts will also vary slightly from day to day because of atmospheric changes, such as in pressure or density, temperature, humidity, mirage, wind

(*Continued on page* 44)

BULLET DROP (From Factory Figures)

Bullet	W/d²	Load	M.V.	Gravity Drop Below Bore Line	
				(at 200 yds.)	(at 300 yds.)
			.22 Rim Fire		
40-gr. lead	.114	Factory	1067 f.-s.	83.04 inches	
“ “	“	“	1180 “	72.56 “	
45-gr. “	.128	“	1125 “	85.00 “	
“ “	“	“	1450 “	54.90 “	
			.22 Hornet		
45-gr. R.N.	.128	Factory	2350 f.-s.	21.60 inches	54.00 inches
“ “	“	“	2400 “	18.40 “	52.00 “
“ P't'd.	“	“	2600 “	16.00 “	48.00 “
“ S.P.	“	“	2650 “	16.00 “	50.00 “
46-gr. O.P.	.130	“	2625 “	17.00 “	42.00 “
			.218 Bee		
46-gr. O.P.	.130	Factory	2780 f.-s.	12.00 inches	28.00 inches
“ “	“	“	2800 “	11.00 “	32.00 “
“ “	“	“	2860 “	14.00 “	42.00 “
			.219 Zipper		
56-gr. O.P.	.160	Factory	3050 f.-s.	12.00 inches	28.00 inches
46-gr. “	.130	“	3390 “	10.00 “	28.00 “
“ “	“	“	3420 “	10.72 “	40.40 “
			.220 Swift		
56-gr. O.P.	.160	Factory	3720 f.-s.	6.00 inches	18.00 inches
55-gr. P't'd.	.158	“	3720 “	6.00 “	18.00 “
46-gr. O.P.	.130	“	4140 “	6.80 “	18.00 “
48-gr. S.P.	.138	“	4140 “	6.00 “	14.00 “
“ “	“	“	4140 “	5.20 “	12.80 “

or air currents, and perhaps from a combination of these and other minor influences. Such changes will, of course, also indirectly affect the bullet drop calculated from shooting data obtained under varied conditions unless allowances are made or unless an average is struck from dope obtained under varied conditions. Our own method is to pick our shooting day for nearly normal atmospheric conditions and then take the gravity drop data exactly as it falls on that day. The fact that our own drop dope for factory loads in standard bores closely agrees with the factory drop figures should indicate our dope is reasonably accurate.

Each line in the tables gives the drop for a definitely different load, although some may appear to be identical. In the group of loads given for the Kilbourn-Hornet all were fired with a scope 1½ inches above the bore. The final load given in the last line had a .223-inch bullet in Remington cases and gave about 2¼ inches less drop over 200 yards than it had with the same powder but a .220-inch bullet in Western cases as reported in the next line just above it. In the .22 H. P. Lovell group the Sisk 55-grain Express bullet mentioned in the last line was fired with a scope 1.62 inches high in Lovell's H.P. case having the 12% shoulder slope, while the 50-grain bullets were fired in his other H.P. case which has a 28% shoulder bevel.

In the .22 Varminter group the heavy 63-grain and 65-grain bullets were fired with a high scope, 1.87 inches above the bore, while the other two had a lower line of sight with the scope 1.625 inches high. For those who would know, the scope heights on the .218 Bee, Rimless Niedner Magnum, .22 Streamline and .220 Swift were practically identical, or 1.6 inches above the bore for all. That of the .228 Ackley-Magnum was the same height as that of the Kilbourn-Hornet, while the .22 H.P. Lovell and 2-R Lovell had the disadvantage of a lower line of sight, or 1.475 and 1.45 inches, respectively.

Bullet Drop (From Dope Bag Firing)

Bullet	W/d^2	Load	Powder	Drop in inches (200 yds.)	Drop in inches (300 yds.)	Impact to aim (100 yds.)	Impact to aim (200 yds.)
.22 Kilbourn-Hornet							
45-gr. S.P.	.128	Factory	2400 f.-s.	17.54	49.14	2.55 H*	4.46 L*
46-gr. O.P.	.130	"	2625 "	14.22		2.20 H	0.20 L
45-gr. "	.128	"	2650 "	13.52		1.85 H	3.90 L
41-gr. Sisk	.118	13.2 grs.	No. 4227	11.46	34.72	4.05 H	3.78 H
" "	"	13.6 "	"	11.78	34.41	4.23 H	3.40 H
45-gr. 8-S	.128	13.2 "	"	11.94	28.80	3.94 H	2.96 H
" "	"	13.2 "	"	9.71		0.95 H	1.80 L
.218 Bee							
41-gr. Sisk	.118	16.0 grs.	No. 4227	13.86	34.01	1.00 H	2.50 L
2-R Lovell							
41-gr. Sisk	.118	17.0 grs.	No. 4227	12.56			
45-gr. 8-S	.128	" "	No. 4198		23.48		
50-gr. 8-S	.142	" "	"	9.06	26.04	1.00 H	1.75 L
55-gr. S.N.	.158	" "	"	7.45	24.55	1.00 H	2.58 L
47-gr. 8-S	.135	16.5 "	"	9.97	26.96	1.00 H	2.05 L
Rimless Niedner Magnum							
50-gr. 8-S	.142	29.0 grs.	No. 3031	7.96			
55-gr. S.N.	.158	" "	"	6.94	20.02	1.00 H	0.18 L
" "	"	29.5 "	"	7.66			
" "	"	28.5 "	"	6.87			
" "	"	27.0 "	"	11.06			
.22 H.P. Lovell							
50-gr. 8-S	.142	32.0 grs.	No. 4064	7.53	23.36	1.00 H	1.27 H
50-gr. Sisk	"	"	"	9.17	21.55	1.00 H	0.50 L
55-gr. Exp.	.158	28.8 "	No. 4320	6.38	21.25		
.22 Streamline							
55-gr. Exp.	.158	39.5 grs.	No. 4064	8.50	17.76	1.00 H	0.26 L
.22 Varminter							
55-gr. Exp.	.158	39.5 grs.	No. 4064	7.30			
50-gr. 8-S	.142	36.0 "	No. 4320	5.96	14.05	1.00 H	(on aim)
" "	"	37.0 "	"	5.44			
63-gr. Exp.	.180	40.0 "	No. 4350	9.55	19.68	1.68 H	1.38 H
65-gr. 8-S	.186	J. B. Smith Load		11.09	23.27	1.27 H	2.22 H
.220 Swift							
50-gr. 8-S	.142	39.8 grs.	No. 4064	4.38	11.02	1.00 H	0.45 H
.228 Ackley-Magnum							
70-gr. O.P.	.192	40.0 grs.	No. 4320	12.73	27.62	2.22 H	2.50 H
70-gr. S.P.	"	45.0 "	No. 4350	13.28	26.33	3.00 H	1.97 H

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* "H" means inches above aim and "L" means inches below aim.

.276 Pedersen cartridge once made by Frankford Arsenal for the Pedersen and Garand semi-automatic experimental military rifles in 7-mm. caliber, was obsoleted by the order of General MacArthur while he was Chief of Staff. At this writing there are 200,000 rounds of this ammunition in good condition in storage and available for sale to N. R. A. members, but at present only through the secretary of the member's local shooting club and provided that said organization is affiliated with the National Rifle Association and in good standing. All orders must be sent to N. R. A. Headquarters, in Washington, D. C., by N. R. A. club secretaries who already have been given all the necessary information through the N. R. A. Club Bulletin of April 15th. If interested, contact your local N. R. A. club. Some of this .276 Pedersen ammunition has the small-size pocket and the .175-inch rifle primer, and some of it, the regular large-size .30-caliber primer. The purchaser's primer-size preference may be stipulated on the individual order, but no assurance has been given that the selection can or will be made in filling such specified orders.

The .276 Pedersen cartridge is loaded with a 125-grain F.M.J. pointed boat-tail bullet, and the average charge (by our own breakdown test and scales) is 31.7 grains weight of I.M.R. powder No. 25, Lot 1324, which gives the bullet an initial velocity of about 2700 f.-s. In appearance (shape, color and size of kernels) this powder lies between No. 4198 and Pyro D.G. I.M.R. No. 25 has never been made available as a canister powder, but it is very similar to I.M.R. No. 4198 which has supplanted it.

An idea of the physical characteristics of this .276 Pedersen cartridge may be had by studying the accompanying line cut. The bullet is .284 caliber; a true 7-mm. The .276 figure refers to the bore diameter. The lead-alloy core (7 parts lead and 1 part antimony) weighs 83 grains, while the gilding metal jacket brings the total to 126 grains. The pointed bullet has an ogive radius of 10 calibers. The W/d^2 is .222. Its exterior ballistics approximate those of the M1 and M2 .30 caliber Service ammunition; its "C" value lies between the two.

According to our duPont ballistic charts the relative ballistic coefficient of the 172-grain M1 bullet is .560 and that of the 150-grain M2 bullet is .469, while that of the 125-grain .276-Pedersen is .515. Bear in mind these are relative values and not arbitrary figures. This fine little 7-mm. bullet is perfectly streamlined. Unlike the two .30-caliber Service bullets it has no cylindrical portion or parallel sides, but a continuous curve from sharp point to the edge of its boat-tailed and concaved base. When forced into the rifling, however, it has a bearing-length of about ⅜ inch. Its total length, by our own measurement, is 1.214 inches. The standard twist of rifling for it was one turn in 9 inches. Standard 7-mm. Mauser barrels, according to origin, have rifling pitches of 1 to 8 and 1-10, making any of them suitable.

The trajectory of these .276 Pedersen bullets closely agrees with that of our M1 Service bullet up to 1000 yards, and its accuracy is equal up to 600 yards at least. Because of its lighter weight the recoil is less; not half as much as that of the .30 caliber. Because the case head is smaller in area, the back thrust on the bolt is less. Because the powder load is 40% less and its chamber pressures are slightly lower, it develops less barrel heat than the .30 caliber, or only about

40% as much. That is, 200 rounds of .30 caliber ammunition will make the rifle barrel just as hot as 500 rounds of .276 Pedersen ammunition under equal conditions of firing.

In overall length, the .276 Pedersen, rimless, bottle-neck cartridge is about ½-inch shorter than the .30-'06, and the mouth of its case comes only up to the .30-'06 shoulder when the two are set side-by-side on their bases. Whereas the head diameter and base of the .30-'06 is .471 inch the .276 case measures .446 inch at these same points. The body of the case has appreciably more taper than that of the .30-'06. The 6-mm. Lee-Navy and 6.5-mm. Mannlicher have very nearly the base diameter of the .276 Pedersen. They are only slightly smaller, while the .25, .30 and .32 Remington rimless bases are considerably smaller, or .418-inch in diameter. Because of this discrepancy, bolt faces made for these other standard cartridges may have to be weld-filled and reshaped to properly fit the .276 Pedersen case head.

Only a couple-dozen semi-automatic rifles, more-or-less, were made for this cartridge, and these experimental military arms qualify best as museum pieces. Consequently, existing rifles must be converted to take this .276 Pedersen cartridge if it is to be fired. For this purpose rifles in the 7-mm. Mauser caliber are best. Griffin & Howe, 202 E. 44th Street, New York City, have made up chambering reamers and will do the conversion job at reasonable prices, which will vary with the amount of work required on the individual rifle. Vernor Gipson, 1934 Touhy, Chicago, Illinois, has also prepared chambering reamers and will be glad to give estimates or quotations on such work. We have been informed that W. A. Sukalle, 1120 E. Washington St., Phoenix, Arizona, has made barrels and chambering reamers for this cartridge and completed one rifle for it.

* * *

On the Ideal Caliber. In his recent letter to me, Sir Charles Ross, of .280-Ross fame, suggests experimentation with the .240 caliber and a bullet of .248-inch diameter loaded in the .30-'06 case necked down. His reason was the strong mathematical indication, before the war broke out, that such a cartridge would be about right for sporting purposes. His reasoning is that the barrel should be from 100 to 110 calibers long and have a pitch of rifling of 32 calibers for a replica or miniature of his 180-grain .280-caliber bullet. He would then develop a smooth-working load somewhat short of excessive pressure. Finally, he would decrease the bullet weight to correspond with that of the 145-grain .280 Ross and increase the powder charge for highest practical accuracy.

The .236-caliber (6-mm.) 112-grain standard bullet comes nearest to corresponding in weight with the .280-Ross 180-grain bullet. In .240 caliber such a bullet would have to weigh about 135 grains, and to correspond with the .280 Ross 145-grain bullet the .240 bullet would have to weigh about 100 grains. We already have in this caliber the Barnes 105-grain S.P. bullet with a sectional density of .260, that of the .280-caliber 145-grain bullet being .255. The twist of 32 calibers would be a turn in 8 inches, and the barrel length which Sir Charles suggests would be 24 to 26 inches. The English .242 Vickers and .246 Purdey, both loaded with 100-grain bullets and to nearly 3000 f.-s. m.v., would closely approach this suggested ideal. The nearest thing to it which we have personally fired is the .240 Super-Varminter and 75-grain bullets.

* * *

.240 Super Varminter was an interesting caliber when it came up. Not available now, it may not be revived after the current war. It was developed by Gebby and Smith to handle 75-grain and 87-grain bullets to which the .220 Swift and regular .22 Varminter were not adapted. The latter used a .220 bore and .250 Savage cases. The Super Varminter employed .270 Winchester cases and a .240 bore. It is a far cry from the old .22 Newton which drove a .226-inch 90-grain bullet at 3100 f.-s. My old trajectory figures for this Newton load indicate a drop of 1¾ inches over the first hundred yards, 2⅜ inches over 200 yards and 15 inches over 300 yards. This is just about what the .224 Varminter class of cartridge does today with the W-M 50-grain 8-S bullet.

J. E. Gebby told me, back in 1939, that their 87-grain bullet in their Super .240 would do about as well as the 50-grain bullet was then doing in the .22 Varminter. A charge of 56 grains of No. 4350 gave the 87-grain bullet 3733 f.-s. in a 26-inch barrel. The lightest practical bullet weighed 75 grains. The barrel was about the proportions of the M-70 Sporting barrel. After 1600 rounds of heavy loads the erosive effect on the bore was not noticeable. One load, of 53 grains No. 4064 gave the 75-grain bullet 4008 f.-s. at 25 feet from the muzzle and 3305 f.-s. at 200 yards. That is pretty tall traveling for a bullet an eighth of an inch longer than the .22 H.P. Savage bullet. Another load of 60 grains No. 4350 gave the 75-grain bullet 4000 f.-s. at 25 feet. Our figures give this 8-caliber bullet a sectional density of .174 and a ballistic coefficient of .360. There is a 10-caliber Barnes bullet of the same weight and caliber with a relative "C" value of .410.

The accuracy of the .240 Super Varminter was not as good as that of the .22 Varminter. Some 10-shot 200-yard groups, which I have, measure 1.88 inches center to center for the 4000 f.-s. load and 2.25 inches for a 4100 f.-s. load with the same 75-grain bullet. There is also a 5-shot group of 1.5 inches made with 60 grains of No. 4350, and two more of the same which measure 2.13 and 1.94 inches. That is a pretty satisfactory performance at 200 yards in view of the 3300 f.-s. remaining velocity with which these 75-grain bullets strike the target at 200 yards. With the charge cut to 58 grains the accuracy is slightly improved. Two consecutive 5-shot groups made with this load at 200 yards measure 1.50 and 1.63 inches. When we fired the 58-grain load our impact was 2.30 inches high at 100 yards when zeroed for 200 yards. This trajectory is like that of the 55-grain bullet in the 2-R Lovell. However, there would be an appreciable difference beyond 300 yards. The 60-grain load was a different proposition. With it our impact was only 1.06 inches above aim at 100 yards under the same conditions.

* * *

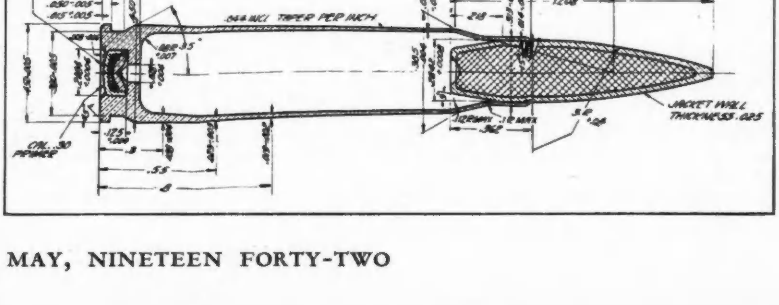
Sale of Special Targets. Some interest has developed in the inverted-T targets used by Mr. Packard and shown in connection with his story, "Old Guns and New Loads," on page 15 of THE AMERICAN RIFLEMAN for March 1942. We have obtained a limited supply of these targets which we can offer at fifty cents per roll postpaid. There are 50 targets to the roll, or 25 sheets of tough buff paper (16 x 24 inches) each bearing two targets. The base of the black inverted-T is 7¾ inches long and 3 inches deep, while its black stem is 6 inches high and 2 inches wide. This makes a fine aiming point for blade or bead sights. Beneath the stem is a contrasting 2-inch square of paper color for accurate aim with cross-hairs or scope posts. The remainder of the 7¾ x 9-inch target area is marked off in inch squares, for trajectory or deflection shooting and convenient group measurement, or estimation of the vertical and horizontal spread. These are Remington testing targets also known as Belding & Mull "Minute-of-Angle" targets. Send all orders and remittances to the National Rifle Association.

* * *

Light Hornet Loads. Many Hornet owners want to use them on edible small-game and still avoid undue tearing. Even 8.8 grains of No. 1204 and the Sisk 35-grain full-patch bullet tears squirrels badly. The same might happen too often from the use of 8.3 grains of No. 1204 or 7.5 grains of No. 2400, although these are normally good game loads for the .22 Hornet.

Back in 1937, Walter Oakey developed some good squirrel loads at velocities in the neighborhood of 1500 f.-s. in his .22 Hornet, 30-inch No. 3 barrel. The bullet was that well-liked Loverin-Ideal gas check, No. 225438, which weighs 44 grains. The charges were: 3 grains Hercules Unique or Infallible in Winchester cases with W.R.A. No. 116 primers, which averaged .38 inch per five shots at 50 yards, inside, or scoring, measurement. Other loads which could be substituted are: 2.75 grains Dupont Ballistite or 2.2 grains of Bulk Shotgun smokeless siftings. Screen it to eliminate the fine dust and then use the next finest screenings in this .22.

The .276 Pedersen



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TRADE DOPE

Pacific Gunsight Co. are now offering a low-cost bullet sizer to help solve the present problem of sizing and lubricating lead-alloy bullets when regular machines cannot be obtained. This new die is threaded to replace the regular die on the Pacific Reloading Tool. The plunger ends in a notched or rimmed edge to fit the case holder of the tool. The other end of the plunger is concaved to fit the bullet nose.

Our own sample has a Hornet head and a rounded cavity to fit the Loverin-Ideal .22 Hornet bullet, No. 225438, and the diameter of the die's sizing-hole is .2265 inch. First the bullet is lubricated by the dipping- or by the cake-cutter method and then it is forced through the Pacific die, base first. We found we could also reduce some .228-inch pointed bullets by forcing them through this die nose first and this also kept the gas-check cups intact.

* * *

Gunsmiths Wanted for defense work by the Chrysler Corporation, 7900 E. Jefferson Ave., Detroit, Michigan, who hope to secure particularly the services of mechanics with sufficient ballistics knowledge to serve as ballisticians. Requirements are: American citizenship, good character, and the above qualifications. Those in Class 1-A of the draft are not wanted.

* * *

Merit Gunsight Co., of Oakland, Calif., informs us that the rubber-shortage has affected the manufacture of those Merit items which involve this critical material. However, they do not anticipate any shortage of their popular sighting discs for hunting and sporting peep sights and for suitably-threaded globe front sights.

* * *

Michael E. Pecha says he has had to discontinue cartridge components and stop all further shipments for the duration. Practically all his listed items were sold in February.

* * *

Ralph Pike, the Self-Setting Trigger genius, has sent in a sling keeper to fit Army-type rifle slings. It is a simple metal affair with the customary two prongs in one end and a rectangular loop in the other end, both bent down at right angles to the base or back and both on the same side. It is about 1½ inches square. It is installed on the strap with the prongs forward and in the last pair of holes of the top strap, the slack being cinched up for parade position or shooting position with the bottom strap. It works all right.

* * *

Lawrence Wesnitzer, known by his primer-pocket brushes, now has a cleaning brush for the insides of cases, in three sizes suitable for the necks of .22, .25 and .30 caliber cases. The neck fit is for guiding the shank as the brush reaches to the bottom of the case and its flared end also cleans the shoulders of the case as it is withdrawn. Unlike the Wesnitzer primer-pocket cleaners, these new brushes have no shanks to fit standard small grinders, electric hand drills, drill presses or breast drills, the latter being used is a vise for this purpose. They're hand tools.

* * *

R. D. Kean, of Seneca Falls, New York, has an auxiliary objective lens designed to adapt high-power target scopes for short-range aiming practice across an ordinary room, with no change in the range focus of the scope. Its purpose is to permit adequately sharp focus, or clear vision, at such short distances as ten feet. The one we tried, in its threaded holder, conveniently screwed on the objective end of our 15X Lyman Super-Targetspot and gave good focus on our target at 11½ to 12½ feet, but best at exactly 12 feet. We consider it practical for the purpose and like it especially for our muzzle-zero shooting which is annoying and difficult with the usual target scope unless a cover and a tiny aperture at the geometrical center are used over the ocular lens.

* * *

Lew Sanderson, the well-known stocker of pistols and revolvers (especially for target shooting), informs us he has been compelled to raise the price of his stocks because of increased costs.

* * *

M. L. Stith, now has an "Install-It-Yourself" mount for the Savage bolt-action rifles, which we have tried on the M-23 in .22 Hornet caliber. The 29-S Weaver scope-axis is only .995 inch above the bore. Last year only a third of the Stith mounts sold were other than the "Install-It-Yourself," which indicates the popularity of this model. His analysis also showed that most mounts purchased were for the M-70 Winchester, all other Winchester rifles running less than 10% of the total. The next most popular rifle for Stith scope mounts was the M-99 Savage lever-action. Military rifles ran less than 5% of the total.

* * *

E. M. ("Red") Farris informs the world, in the columns of his official "Muzzle Blasts," about the purchase of a new permanent range for the National Muzzle Loading Rifle Association. We are glad to note this is practically assured. The official organ of the Association, "Muzzle Blasts" has grown into a 12-page illustrated magazine of informative shooting dope which is a credit to its editor.

LETTERS

"Hypothetical" Explained. Under the division of "LETTERS" in the March 1942, issue of your magazine under the caption Hypothetical there were two queries which interested me, and I have not been able to reconcile my ideas with the answers given: very possibly I am wrong, or have a different interpretation of the cases. I understand the problem to mean that the "guns" fired are ON THE TRAIN, more or less connected to it and moving with the train, which in one case is moving at a speed of 90 m.p.h.

Did you ever drop an article while in the car of a moving train? If you did no *doubt* the article fell to the floor almost below the spot from which it fell. This is just to say that the articles, and all articles in the car or on the train have the same speed or we will say velocity (speed and direction) as the train.

I do not know what is conveyed to the minds of others when a projectile is said to have a velocity of so many feet per second, but to me it means a speed of so many feet per second at or near the muzzle and with respect to the said barrel or muzzle; otherwise I would state it as so many feet per second average over a distance or at some external specific point. If the "cannon" were fired from the rear of the train pointing horizontally to the rear—180 deg. from the direction the train is going, the cannon and all its parts would have the same velocity ordinarily, as the train. Therefore if the barrel or muzzle speed of the projectile were just equal to the train speed, but in opposite directions the projectile would not LEAVE the barrel, or at least NOT travel after leaving the barrel—as far as theory of speeds or velocities is concerned, it would not move.

The same with the pistol case: the speed of the bullets would be increased in one case and decreased in the other by the speed of the train, or the component of such, parallel to the axis of the barrels.—C. A. M.

Answer: I have your letter of March 11 about the hypothetical question.

I think that what is bothering you may be answered by saying that in relation to the gun or its support the velocity does not change, but only in relation to the ground. In other words, if the gun is retreating at the same rate as its muzzle velocity the bullet would reach the starting point, but still would have the normal velocity in relation to the gun and would have no velocity in relation to the ground. This would be modified by the barrel length and barrel time as indicated in my answer.

Of course, when the direction is reversed and the gun is traveling forward in the direction of the bullet at the same velocity the velocity would be doubled in relation to the ground, but not increased at all in relation to the gun and its support.

That is a point which is usually forgotten that there is no change in relation to the gun or its moving support, but only to a fixed target or the ground which remains stationary.

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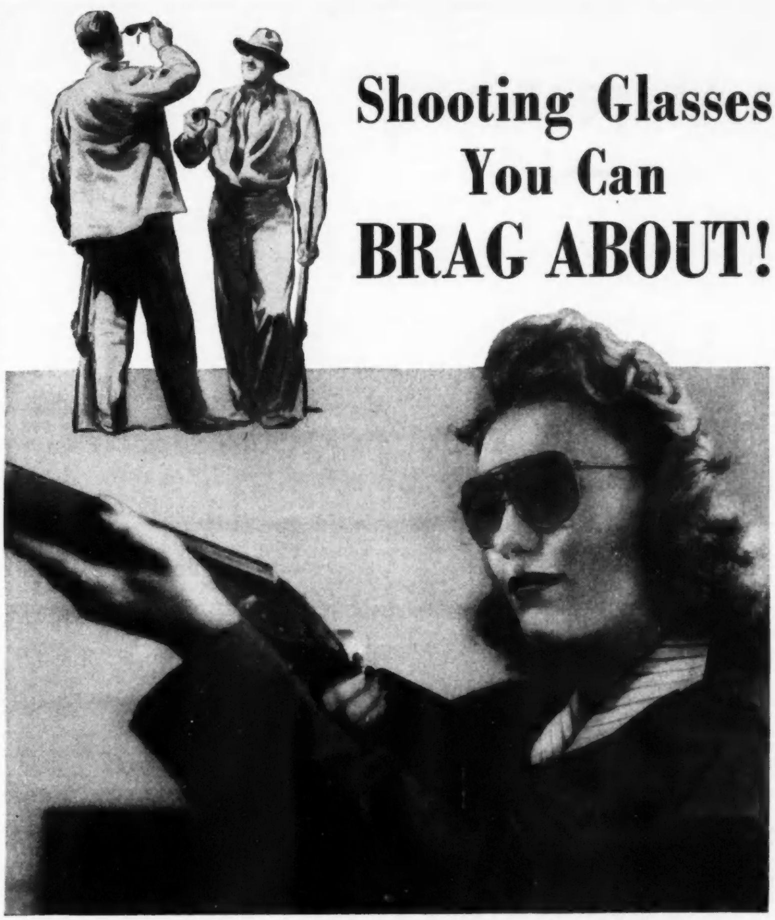

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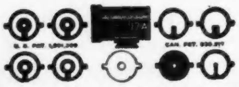

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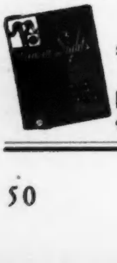

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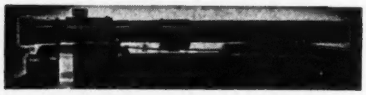

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32 OFFICERS MODEL COLT, PACIFIC DIES, 2 cavity Hensley mold, $65.00, excellent. 300 H. & H. 70 Bull Gun, perfect, complete, $115.00; less sights, $105.00. All Weather Alaskan crosshair 70 Union mount, perfect, $65.00. WANT—Winchester 70 and Hand Guns. Hans Lefrenz, Route 4, Box 610, Phoenix, Arizona. 5-42

OFFERING COLLECTION OF HIGH grade cased double muzzle loading shot guns by famous makers. Also listing some desirable flint and percussion rifles in shooting order. Specify which list wanted. Stamp please. Kimball Arms Company, Woburn, Mass. tf

SAVAGE 23-AA SPORTER, 29S, WEAVER B mounts, Triggershoe, sling, excellent, $36.50. Robert Griep, 815 South 14th, Quincy, Illinois. 5-42

GOOD .35 SLIDE ACTION REMINGTON; MAhogany pistol grip stock, fore-end, recoil pad, very accurate, Lyman peep, $35.00. W. G. Malvick, 9212 S. Monitor, Oak Lawn, Illinois. 5-42

WINCHESTER 54 HORNET, Lyman #48 REAR, ramp front, excellent, $50.00. Dewar Model Shooting Coats, size 38 and 40, $5.00 each. Camp Perry Model Coats, sizes 40 and 42, $6.50 each. G. H. Grant, Alamogordo, New Mexico. 5-42

KODAK MEDALIST AND CASE. KODAK PREcision Enlarger. Accessories. C. B. Morton, 1205 Florida Ave., Bristol, Tenn. 5-42

270 MAGNUM, 26" NEW NIEDNER BARREL, target weight, Enfield action, altered magazine, scope blocks, 100 new M.T. cases, no stock, $50.00. Howard Konsbruck, 2915 Giddings St., Chicago, Illinois. 5-42

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REMINGTON MODEL 30-S, .30-06, IN EXCELlent condition, equipped with Alaskan 2½ power scope on Redfield mount. Used one hunting season. Will sell combination for $95.00, or gun alone $55.00. Reason—drafted. James Carmack, Box 1003, Camas, Washington. 5-42

LIMITED QUANTITY GEORGE III DRAgoon Flintlock Pistols with swivel rods. Fine shooting order. Decorative. $17.50 each. Kimball Arms Company, Woburn, Mass. tf

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PRICED TO SELL: 10X36 BUSCH BINOCULARS, $38.00; A-5 telescope, case, $21.00; 438, $15.00 mounts, $18.00; 20X Stevens, full-length, mounts, $12.50; hi-comb Ballard stock, forearm, burl walnut, $7.00; Winchester .25-20 SS, hi-comb stock, tools, cartridges, empties, bullets, $20.00; deluxe .218-Bee, .22-Krag lightning outfits, telescopes, tools, empties, bullets, 1000 NCNM primers with each; .30-06 Springfield, sporter, 48, $40.00; straightline tool, complete .30-06, .30-40, .250-3000, .270, $15.00; 7x9 umbrella tent, $7.00; good view camera, $9.00; 4x5 copying camera, $7.00; Speed Graphic outfit. "Bob" Quigley, Weedsport, N. Y. 5-42

SPECIAL PRICES: LYMAN, WEAVER, Scopes. New Bridge-Type Redfield Mount. Weaver Model 29S Scopes, $12.55. Stock Reloading Tools, Bullets, Primers, Cases, Powder. Free! Gun Catalog. Special! Gov't Oilers and Cleaners, 29¢. Warshal's, First-Madison-BB, Seattle, Wash. 5-42

MUZZLELOADING REVOLVERS. COLT and Remington 44 and 36 caliber revolvers in fine shooting order, also moulds. Stamp for list. Kimball Arms Company, Box 257, Woburn, Mass. tf

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WOLLENSAK 25X TELESCOPE WITH TRIPOD, new conditions, $20.00. 2,000 Remington No. 9½ primers, $3.50 thousand. Ideal bullet mould No. 308329, $4.00. Clark L. McNutt, 389 Champion St., Battle Creek, Mich. 5-42

HAVE FEW AUTOMATIC FISH GAFFS LEFT at $4.50, circular. Also rare 4 bbl. Sharps 22 Pistol; Starr 44 caliber percussion 8 inch bbl., both in shooting order. WANT—Winchester Hi-Side 45-70 and Enfield or Enfield action. J. R. Thompson, Burt, Iowa. 5-42

PERFECT .45 NATIONAL MATCH, HENSHAW beaver tail trigger, Stevens rear sight, new extra barrel, 4 new extra magazines. Perfect .22 Ace Conversion Unit with new micrometer click rear sight. Both .45 and Conversion Unit ordered same time. Complete outfit $100.00. No trades. Frank M. Harper, Jr., Box 1346, Raleigh, N. C. 5-42

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417 WALNUT HILL, MARBLE-GOSS AND RED-field sights, excellent, $50.00. Complete Mauser Bolt, $5.00. 10X French Binoculars, $16.00. Seventy issues Rifleman, best offer. Oscar Havens, U.S.M.H., Norfolk, Va. 5-42

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WINCHESTER 75 SPORTER; PERFECT IN AND out; 57-E rear equipped with Merit disc; trigger shoe; sling; $38.00. Stevens Offhand; front bead filed; good; $7.00. 390 new Hornet factory loads; soft point, $15.00. Cash only. Frank Trinkner, Box 161, Allendale. New Jersey. 5-42

SHOOTING MASTER, CALIBER 45 AUTO, CUSTOM grips, very good, $35.00. Commercial 45 Colt Automatic, good, extra clip, $25.00. WANTED—380 or 32 Colt. Wendell Wolf, 409 Northwest, Freeport, Illinois. 5-42

WALNUT HILL 417, GOSS REAR, VAVER FRONT, $39.50. N. M. Springfield Sporter 1230741, Bowman stock, accurate, $59.50. Winchester 8X Scope Bases, $9.00. $600.00 handmade Castel Fidardo 120 Bass Accordian, 4 shifts, $150.00. All excellent. Potter Melting Pot, good, $5.50. H. Miller, 52 3rd Ave., Secaucus, N. J. 5-42

SELL: REMINGTON 31, 20 GA. 28" IMPROVED cylinder, raised rib. Checkered. perfect. $55.00. Charles Davis, 614 Sixth Street, South, St. Charles, Illinois. 5-42

FOR SALE: CURLY MAPLE STOCK Blanks. L. G. Stockberger, Garrettsville, Ohio. 5-42

ENGRAVED KRIEGHOFF MAUSER .30-06. Heavy engraved Luna 22 L.R. with Zeiss scope. Both fine. WANT—Civil War Revolvers; engraved Colts and Winchesters. Joseph Kovatch, 2915 Sunset Place, Los Angeles, Calif. 5-42

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8MM MAUSER, AMATEUR REMODELED MILITARY carbine, Jostam recoil pad, powerful, accurate hunting rifle, $20.00. Russell Elder, Griffin, Ga. 5-42

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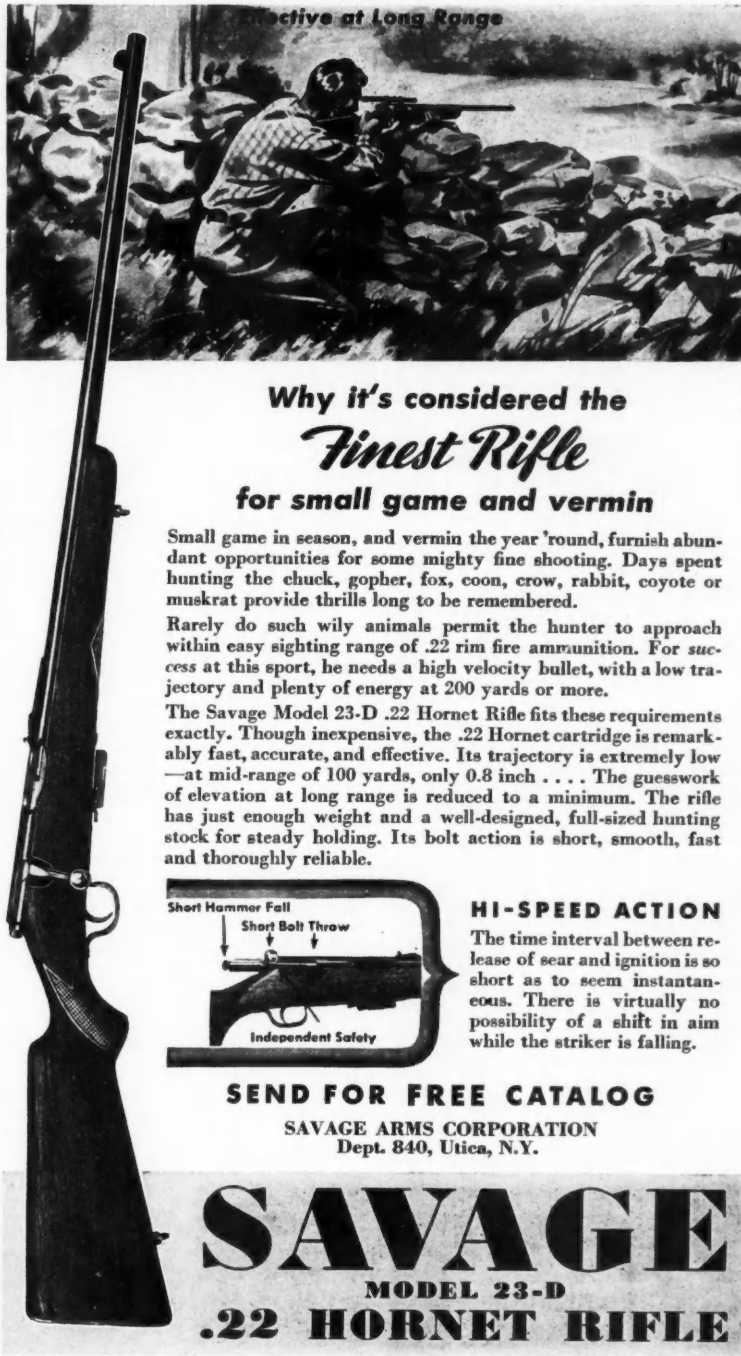

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WINCHESTER 94, 30-30, FAIR, REBLUED cheek piece stock, $25.00. Savage 25-20 Sporter, 29S scope, excellent, $32.50. Krag 98, 22" barrel, good, new sporter stock, $22.50. Winchester 92, 24" barrel, 25-20, excellent, action reblued, $20.00. Winchester 97, 30" barrel, 12 Ga., good, reblued, some pits, $22.50. Winchester 97, 28" barrel, 12 Ga., new barrel, reblued, solid frame, $30.00. Remington 511A, 22 Cal., excellent, $12.50. Remington 24, 22 L.R., new barrel, reblued, $30.00. Winchester 63, 22 L.R., excellent, reblued, $30.00. Colt 45 cal. Philippine Model 6 inch barrel, fair, $17.50, Savage 32 Auto, fair, $10.00. S. &. W. Break Open, nickel, 44 Russian, 5 in. barrel, good, $17.50. Spanish 32-20 good 5 in. barrel, $17.50. C.O.D. with inspection at Express Office, ¼ cash. Stamp please. F. W. Caauwe, Norfolk, Nebr. 5-42

FOR SALE: LYMAN SUPER TARGETSPOT 20X, excellent, $79.00. Lyman Jr. Targetspot 8X, perfect in factory box, $55.00. Fecker 1⅛" scope converted 16X, very good, $65.00. Winchester 52 Standard, 48 rear, 17 front, sling, 10 shot clip, excellent in and out, $65.00. Colt 38 Automatic, very good, $29.00. WANT—W70, .30-06, excellent or what have you? WANT—Fecker 1½" 20X scope. Bert Lee, Terry, Montana. 5-42

WINCHESTER 70 .30-06, 48 W.J.S., INSIDE perfect, outside brush marks. Fired five times, $70.00. Hugh Cassidy, San Rafael, Calif. 5-42

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FOR SALE: BELL AND HOWELL SIXTEEN mm projector, perfect, case and extra lamp. Cost $175.00. Sell $135.00. Tom H. Sancomb, P. O. Box 333, Port Hueneme, Calif. 5-42

MODEL 94 WINCHESTER CARBINE, EXCELlent with 44 cartridges, $40.00. 500 empty hornet shells, $3.50. 22 Hornet Savage Model 219 with 20 gauge shotgun barrel, $15.00, with case. Benton F. Allen, 710 Tayman St., Somerset, Pa. 5-42

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.45 AUTO, GOOD SERVICEABLE CONDITION, 3 extra clips, army holster and belt, 69 Kleanbore cartridges. .25 Colt Auto, very good, Waistband holster, 100 cartridges. Best offer. R. C. Douglas, 113 Ordale Blvd., Pittsburgh (16), Penna. 5-42

$1.50 EACH. SPRINGFIELD RIFLE BARrels. 30-06 caliber. Second hand. Limited supply. We will buy sextants, Binoculars, Field Glasses, Modern Firearms, any kind, any condition. Weil's Curiosity Shop, 12 Strawberry St., Philadelphia, Penna. 5-42

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416 STEVENS 344 SCOPE, EXCELLENT, $37.50. 38 Officers Model 7½", very good, $40.00. Woodsman 4½", excellent, $36.00. Remington 31-12 Trapgun, excellent, $60.00. Winchester 63, perfect, $40.00. 7X Monocular, $8.00. 1930-1942 Rifleman, best offer. Jesse George, Brandon, Iowa. 5-42

44½ STEVENS ACTION, SINGLE TRIGger, good, $12.00. "Tisdel" O-U Percussion, $20.00. 6 lb. Ballard barrels for relining, $1.75. 30-30 reblued Winchester M94, new M64 barrel, $35.00. 1896 Mauser action good, $10.00. Mac McWhorter, Park Terrace, Corvallis, Oregon. 5-42

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COLT 45 AUTOMATIC, BLUE, GOOD, $32.00; another nickeled, fair, $27.00. Colt 32 Automatic, good, $17.50; another, fair, $12.00. Colt 1917, 45, very good, $26.00. S. & W. 1917 .45, good, $27.00. 9mm and 30 cal. Lugers, good, $25.00 each. Enfield Sporter, Bishop stock, 29S, good, $55.00. O. H. Lloyd, 1005 Eakle Bldg., Amarillo, Texas. 5-42

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WINCHESTER 12 .20, MODIFIED, V.G., $27.50. Winchester 57, checkered, excellent except blue, $17.50. Stevens 44 D.S. Schuetzen L/R, perfect bore, good out, $15.00. Stevens 44 action, $3.50. B. & M. 26 tool Hornet and R-2, $10.00. Ideal tools in Hornet, .32-40, .32 Special. Stamp for list others. Claude Roderick, Monett, Missouri. 5-42

HEAVY BARREL WINCHESTER 52, PERFECT. Marksman stock, Lyman 77, Marble Goss rear, extremely accurate, $49.50. T. J. Martin, Placerville, Calif. 5-42

ARMY SPECIAL 38-6", BLUE, GOOD, HOLSTER, $25.00. Police Positive Special 32-20-5", blue, V. G. to excellent, $32.50. S. & W. 32-3", blue, finish worn, otherwise, V. G., $15.00. E. C. Quattlebaum, Sr., Tyler, Texas. 5-42

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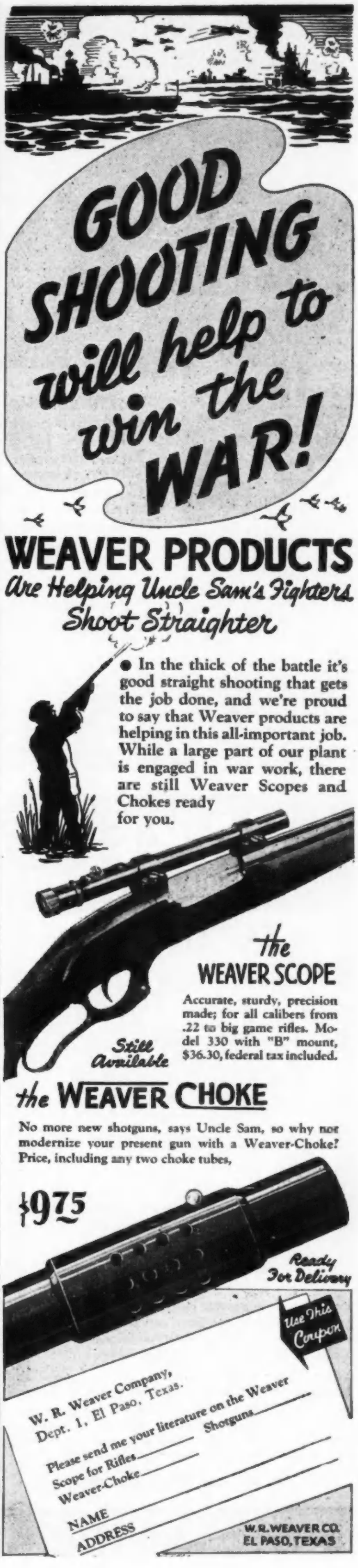

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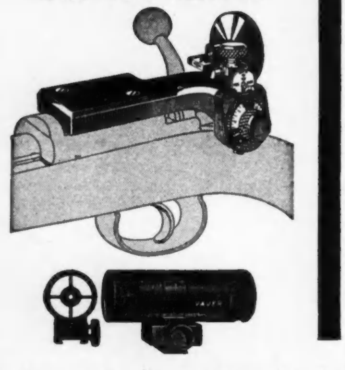

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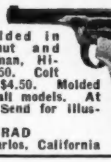

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SAVAGE MODEL 720 AUTOMATIC 12x28, Polychoke, perfect, $60.00. Winchester Model 97 12x30, full, very good, $30.00. Winchester Hi-Wall 38-56, heavy octagon barrel, bore fair, otherwise good, $17.50. Winchester Model 94 38-55 Carbine, new barrel, very good, $25.00. Savage 99F 22 Hi-Power Takedown, very good, $40.00. Remington Model 8 Automatic 30 Rem., sheepskin case, excellent, $60.00. Luger U.S. Eagle 30 Caliber, 12 inch barrel, good, $30.00. Collapsible Rubber Boat about 8 feet x 3 feet, weight 18½ lb., with hand pump, take apart oars and carrying bag, good, $42.50. Many others. List. Stamp. Ed Howe, Coopers Mills, Maine. 5-42

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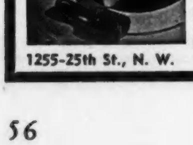

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TRADE—52 WINCHESTER HEAVY BARREL. good, inside very good. WANT—Weaver 330 B mounts, or Ace Colt 22. Oscar Hobbie, Flandreau, So. Dak. 5-42

WILL TRADE, F. A. 1934 AMMUNITION for Enfield or other action, or other trades. Frank Foster, 720 West 5th, Clovis, New Mexico. 5-42

TRADE—ARGUS, MODEL A, CANDID CAMERA, perfect; for Savage or Winchester, bolt action repeating 22 Hornet, good to very good. Carl Winkler, Jr., Lebanon, Ind. 5-42

UNDERWOOD NO. 5 TYPEWRITER, VERY good. Trade for best firearm offered—prefer with reloading outfit. Wm. Magda, 364 South Front, Memphis, Tenn. 5-42

TRADE—UNDERWOOD UNIVERSAL PORTABLE Typewriter, excellent, for late model patridge sighted Colt Officer's Model 22 in like condition. Will pay cash for excellent 70 or 720-06. Ronald J. Lance, Washington State Patrol, Ellensburg, Wash. 5-42

TRADE—ACE FOR 38 OFFICERS MODEL; .45 Automatic for good Rifle. Frank Pratt, Porterville, California. 5-42

TRADE—VERY GOOD, NATIONAL GRAFLEX Camera, Series II, Sportsman carrying case and Weston Exposure Meter Model 650, for 65mm B. & L. Spotting Scope. Arthur Martens, 1053 W. Sheridan Rd., Chicago, Illinois. 5-42

TRADE—RUSSIAN 7.62, EXCELLENT. WANT—Krag, Enfield or Springfield. Winchester 76 Model 45-60, fair, for 10 Ga. Shotgun, full. A. L. Brause, Box 36, Calpet, Wyo. 5-42

TRADE—K-22, EXCELLENT PLUS, WITH CASH for .30-06 or 52. Marshall Royce, 1118 Second, Louisville, Kentucky. 5-42

WANTED

WANTED—ANTIQUE FIREARMS; POWDER flasks, gun books. Will buy entire collections, cash. James Serven, Box 1777, Santa Ana, Calif. tf

WANTED—FOR CASH: DOUBLE BARREL .410 Shot Gun. Side by side or over-under barrels. Both barrels full choke. Prefer 2½ inch chambers. Foreign makes and high grade guns preferred because they are lighter. Please give full description in letter. James Vance, M. D., 315 Mills Building, El Paso, Texas. 5-42

WANTED FOR CASH — SHOTGUNS, Rifles, Pistols and Revolvers. Can use all makes and types. Describe guns fully in first letter, state price, all mail answered. Big Ben Mercantile and Loan Co., 179 Third Street, San Francisco, Calif. tf

WANTED—ANTIQUE ARMS. SINGLE pieces or entire collections. Wm. M. Locke, 3607 Ault Park Road, Cincinnati, Ohio. 6-42

WANTED—S. & W. MAGNUM, 3½", 5" AND 8¾". Also, Colt S.A. .44 Special 5½". Also, .45 Remington .45 Savage Automatic Pistol and Walther .22 Automatic Rifle. Arthur Leidesdorf, Elberon, New Jersey. 5-42

WANTED — FOR GEORGIA STATE Guard: Anti-Tank Gun, 37mm preferred; Machine Guns, .30-06; Sub-Machine Guns; .30-06 Ammunition; .30 cal. Bullets; 45 Autos and Revolvers; Heliograph, old issue; 45 A.C.P. Ammunition; 45 A.C.P. Primers. Mark A. Cooper, Lt. Col., Georgia State Guard, Rome, Georgia. 5-42

WANTED—SET TRIGGERS FOR M-54 Winchester Speedlock Model. Chas. Eckel, 18 14th St., Toledo, Ohio. 5-42

WANTED—S. A. COLTS, ALL CALIBERS, 4½" Woodsman, Winchester 94, Savage 99. Randall Goff, 35 Rumstick Rd., Barrington, R. I. 5-42

WANTED — AEROPLANE BOMBS, OTHER World War I Relics. M. C. Warner, Box 133, Bedford, Mich. 5-42

WANTED—CASH PAID FOR ANTIQUE firearms, Lugers, Mausers, 45 Colt S. A., World War rifles, bladed weapons, Cased Colts, Derringers. Robert Abels, 860 Lexington Avenue, New York. 5-42

WANTED—7MM MAUSER RIFLE. GIVE good description. William H. Lobb, 7133 Buckthorn, Walled Lake, Mich. 5-42

WILSON'S WILL TRADE. WE WANT Colt's and Savage Auto's. What do you want, Cash or Trade? Wilson's, 3082 West 25th St., Cleveland, Ohio. 5-42

WANTED — PISTOLS; ANTIQUE AND Modern; will pay up to $35.00 or more for K-22, Ace, Match Target, 38 Special, 45 Auto Magnum or Luger. Also want muzzle loaders deer and target rifles, scopes, binoculars and ammunition. T. A. Hawn, Box 35, Station A, Los Angeles, Calif. 8-42

WANTED—S. & W. MAGNUM 6½" OR 7", EXcellent or better. Have 8¾" Magnum to sell or trade, excellent. Capt. A. M. Murray, "C" Co. 1st Tr. Regt., Ft. Benning, Ga. 5-42

WANTED—SMALL PRECISION SCREW CUTting Lathe, or good Watchmakers Lathe. Describe fully, and lowest cash price. L. E. Hutchins, Falls City, Nebr. 5-42

WANTED—GUNS—ALL KINDS, 22 CAL., High Power, Revolvers and Shotguns. Give best cash price and accurate description first letter. The Jaymac Co., Jackson, Mich. tf

WANTED — SMITH AND WESSON MAGNUM .357, 3¾" or 5", prefer 3¾". Jack Denby, Carter, Oklahoma. 5-42

WANTED—ISSUE KRAG; TOOLS, PRIMERS and ammunition for 30-40, 32-20, 44-40, 38 Special, and 9mm Luger. R. M. Arnold, Maldon Road, "Idlewylde," Baltimore, Maryland. 5-42

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WANTED—OLD GUNS, SWORDS, ETC. Describe. State lowest prices. Cameron's Relic Castle, 431 No. State St., Chicago, Illinois. tf

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WANTED—SMITH & WESSON K-22 REVOLVER. State condition and price. Ithiel R. Field, Brunswick, Maine. 5-42

WANTED—WILL PAY CASH FOR EXCELLENT heavy barrel target model 70 Swift; cases fired once or new and Pacific dies for Swift; 255 grain S.P. 38-55 bullets or ammunition containing same. Roy Kelly, 37 Appleby Road, Wellesley, Mass. 5-42

WANTED—FOR CASH: EXCELLENT .357 Smith & Wesson Magnum. R. H. Gibson, 1614 Washington, Baxter Springs, Kansas. 5-42

CASH FOR YOUR GUNS AND AMMUNITION. State lowest cash price and describe fully in first letter. All mail answered. Alliance Gun Exchange, 1405 S. Rockhill, Alliance, Ohio. 7-42

WANTED—ONE .30-06 GOV'T. ISSUE SPRINGFIELD Rifle; must be A-1; or a Sportsman or 70 Model Winchester. Francis Warfield, Severn, A.A. Co., Md. 5-42

WANTED—FOR CASH: ONE ITHACA 10 GAUGE Magnum, state price, condition and accessories. Also Winchester #120 or Western #8½ Primers. All replies answered. George Bambas, Richmond, Illinois. 5-42

WANTED—FOR CASH: AMMUNITION, any quantity, all calibres; write Public Sport Shops, Dept. R-48, 13 So. 16th St., Philadelphia, Pa. 5-42

WANTED — 1903 SPRINGFIELD .30-06 Rifles as issued. Will pay twenty to thirty dollars, according to condition. Also want Smith & Wesson 1917 Model, good to excellent. Kimball Arms Company, Woburn, Mass. 5-42

WANTED—WALTHER P.P. OR P.P.K. (CHROMium, engraved, nickel or gold plated, light weight or Deluxe Presentation model), and Walther H.P. Army Pistol. Also .45 Luger and Stoeger Luger Pistol. Want following "Arms and Man" issues: 1919 February 1, December 8, 22, 29; 1918 January 1 to and including June 15 (weekly); 1917 and prior years. Arthur Leidesdorf, Elberon, New Jersey. 5-42

WANTED—ENFIELD, AS ISSUED, (PREFERably Winchester) in new condition. If in original grease, will pay accordingly. J. R. Bodler, U.S.S. Regulus, c/o Postmaster, San Francisco. 5-42

WANTED—ALL KINDS OF GOOD GUNS and ammunition. $55.00 for Smith Magnum. Hershey's, Orrville, Ohio. 9-42

WANTED—STEEL TUBE LYMAN ALASKAN, Cross hair reticule. With or without low mounts. Weaver 330-S, Cross hair, B mount. Remington 141, prefer 35. State condition. Cash on examination. Chas. Peters, Creston, Montana. 5-42

WANTED—HI-STANDARD OR WOODSMAN, 23D Savage Hornet, 75-T Winchester, all very good to excellent inside. Describe first letter. A. H. Wicker, 1905 Benedict St., Newberry, South Carolina. 5-42

WANTED—CASH PAID FOR ALL KINDS of Guns, Rifles and Ammunition. What have you? H. E. Roehrs & Co., Closter, N. J. 5-42

WANTED—WINCHESTER 52 H.B., SIGHTS, excellent or very good. Also Spotting Scope. S. Luke Pettit, Box 26, Cartersville, Ga. 5-42

WANTED—22-3000 R-2 LOVELL MODEL 70 OR 54. Also cases, Lyman tool or what have you? Alaskan scope or iron sights. Merle F. Libby, R.F.D. #3, Caribou, Maine. 5-42

WANTED—PERFECT TO VERY GOOD, .38 Officers Model 6" H. B. .45 Colt New Service Target 7½" barrel. .22 Late Model Ace. State serial numbers and condition. R. F. Bess, 1075 East 1st Street, Long Beach, Calif. 5-42

WANTED FOR CASH—PRISM BINOCulars, Field Glasses, Microscopes, Sextants, Surveyors and Builders Levels. Give description and price in first letter, all mail answered. Big Ben Mercantile & Loan Co., 179 Third Street, San Francisco, Calif. tf

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WANTED—COLT CAMP PERRY, ALSO COLT .38 O.M. Target. Perfect to excellent. C. A. Hartmann, Hutchinson, Minn. 5-42

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WANTED—7.63 MAUSER PISTOL, MODEL 711 and Sedgley Colt Single Action .22 Hornet. Arthur Leidesdorf, Elberon, New Jersey. 5-42

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WANTED—S. & W. 22-32 KIT GUN. VERY good to perfect. Examination privilege desired. Advise price, condition, and specifications. J. L. Baker, Room 231, 1600 Arch Street, Philadelphia, Pennsylvania. 5-42

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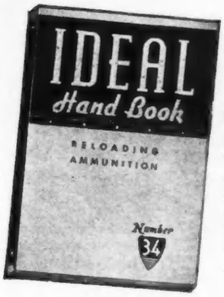

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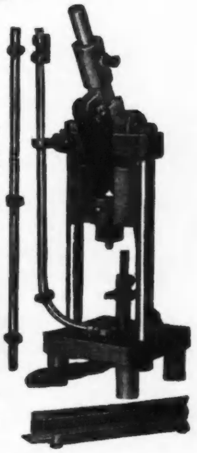

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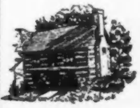

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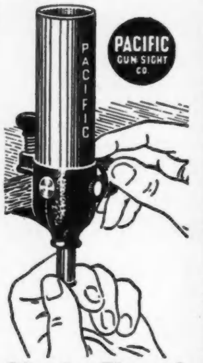

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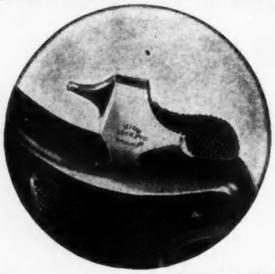

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WANTED—SPRINGFIELD 30-06 ACTION WITH Star gauge barrel. State condition and serial number. Thos. A. Davies, Box 656, Redwood City, Calif. 5-42

WANTED—CASH FOR .357 S. & W. MAGNUM, 4" to 6½" barrel. Also .41 Remington Double Derringer. Ivan McCumber, Glenwood, Wash. 5-42

WANTED—L. C. SMITH, FEATHERWEIGHT, 12 or 16 Ga., ideal grade or better. Also Savage Model 745, lightweight, 12 Ga. Auto. R. E. Ferqueron, Athens, Georgia. 5-42

WANTED—HIGHEST CASH PRICES PAID for Target Pistols, Revolvers, Rifles and Antique Guns of all kinds. Ship for estimate. Public Sport Shops, Dept. R-48, 13 S. 16th St., Philadelphia, Penna. 5-42

WANTED—32 OR 38 HAMMERLESS S. & W. 1½ or 2" barrel and 38-32 with 2" barrel. M. Hatfield, Box 3, O'Keeffe, W. Va. 5-42

WANTED—COLT 22 OFFICERS MODEL TARget or S. & W. K-22 or Masterpiece. Cash. Bert Mott, 37 Snyder Road, Ramsey, N. J. 5-42

WANTED—SPRINGFIELD .30-06, receiver above number 125,000. Ens. John Eisele, Ellyson Field, Pensacola, Florida. 5-42

WANTED—VERY GOOD OR BETTER N.M. .45 and 45-22 converter. Write condition and price of either. Harry N. Walwyn, Oswego, Oregon. 5-42

WANTED—GOOD 1917 ENFIELD ACTION AND 52 or 37 barrel, reasonable, pay cash. R. H. Dorian, Route 9, Kansas City, Mo. 5-42

WANTED—ONE 1926 MODEL S. & W. .44 SPEcial Target Revolver with a 6½" barrel in perfect or excellent condition. I expect to pay well and in cash. C. P. Brown, 188 Bedford St., Fall River, Mass. 5-42

WANTED—HARRINGTON RICHARDSON 22 Eureka Sportsman Number 196. Perfect or excellent. J. D. Adams, Henniker, New Hampshire. 5-42

WANTED—S. & W. K-22; also Magnum 6" or longer in perfect condition. Colt S. A., engraved, perfect. Also Colt S. A., fancy ivory and pearl grips, prefer colored by age and perfect condition. M. C. Clark, 169 No. La Peer Dr., Beverly Hills, Calif. 5-42

WANTED—PRIMERS. ALL SIZES OF non-corrosive rifle and pistol primers for cash. Original Sight-Exchange, Box J, Paoli, Penna. 5-42

WANTED—WINCHESTER #35 PRIMERS, F. A. #70 Primers, (500 or more). V. G. Remington Enfield action and barrel; V.G. 25 Remington 30-S action; Lyman 48; Weaver 330-C or 440-C (cross hairs) and Remington 30-S Redfield mount; excellent 70-220 Swift barrel. Describe completely. Chas. Young, 3014 Jackson, Alameda, Calif. 5-42

WANTED—WINCHESTER .22 MUSKET STOCK; Winchester Single Shot Action. Elmer Anderson, 3280 So. Dutton, Santa Rosa, Calif. 5-42

WANTED—CASH FOR S. & W. 1917, LUgers, Colt Automatics, Springfield. Enfield, Krag Rifles, and all size ammunition. Hudson, R-52 Warren Street, New York. 5-42

WANTED—COLT .22-.45 CONVERSION UNIT with floating chamber, complete. Must be very good or excellent. State price and condition. F. Schneider, 241 Third Drive, N.W., New Philadelphia. Ohio. 5-42

WANTED—D. C. M. SPRINGFIELD SPORTER; M-2 Springfield; Zeiss or Hensoldt Zielvier Riflescope; Colt Short Woodsman; 52 Speedlock Action. State condition, serial, price. Also 86 and 100 grain .25 Cal. Bullets. Dallas O. Burger, 602 E. Tujunga. Burbank, Calif. 5-42

WANTED—ONE COLT 22-45 SERVICE MODEL Conversion Unit with Floating Chamber for converting the Colt Government Model to Caliber 22 Long Rifle. Theodore L. Smith, 61 Main Street, Concord, Mass. 5-42

WANTED—IN EXCELLENT CONDITION, HIGH Grade English, Belgian, or German Over & Under, 16 or 20 gauge, light weight shotgun. Also 25 or 32 caliber Webley & Scott Automatic Pistol. Grant Pierce, 64 Alumni Ave., Providence, Rhode Island. 5-42

WANTED—GOOD TO EXCELLENT .22 and .30-06 Winchester or Springfield Standard Weight Match Rifle. Edwin Abbott, Smith's Ferry, Holyoke, Mass. 5-42

WANTED—READY MONEY ORDERS FOR: Remington M8, M81 (30R, 300S); Winchester, Browning 12 Ga. Autoloading; Winchester M71, M70 (300M, 375M); Springfield, Enfield, actions, rifles; .22, .38, .45 Automatics, Revolvers; gun books; relic machine guns; belts; tripods. Michael Bratkowsky, 95 Balsam, Bridgeport, Conn. 5-42

WANTED—.45 SMITH AND WESSON MODEL 1917; .45 Colt Automatic; and Frankford Arsenal reloading press. Jack Pavell, 307 Eighth St., Eureka, California. 5-42

WANTED—SMITH AND WESSON 357 MAGnum, 6½ inch or longer barrel, state price and condition. Joseph E. Thomas, 532 Broad Street, Bridgeport, Conn. 5-42

WANTED—BALLARD DOUBLE SET TRIGGER Rifle, Outboard Motor, and pure bred Cocker Spaniels for Breeding stock. Have some fine heavy target rifles for trade or will pay cash. Describe fully and quote prices. J. R. McNutt, Box 376, R. D. 5, Akron, Ohio. 5-42

WILSON WANTS COLT'S .32, 380 AND .45 Cal. Auto's; also .32 and .380 Savage Auto's. Highest prices paid. Ship all you have in good mechanical condition with good barrels Blue unimportant. Wilson's, 3082 West 25th St., Cleveland, Ohio. 5-42

WANTED—STANDARD BARREL WINCHESter 52, excellent condition. Give full details. Fred Mosbach, 595 Madison Ave., New York City. 5-42

WANTED—.357 REVOLVER, .22 REVOLVER, .38 Special Revolver, Wollensak Spotting Scope 20x50, Binoculars 6X or 8X, Primers for .38 and .30-06, components and reloading equipment for .38 and .30-06 and .357 Revolver; sextant. Hadley Stephens, 1333 Union St., San Diego, California. 5-42

WANTED—COLT AND S. & W. REVOLVers, Automatic Pistols. .30-40 Cartridges, .45-70 Cartridges. Springfield Rifles, Krag Rifles, Enfield Rifles. Cameras, any make. Warshal's, First-Madison-BB, Seattle, Wash. 5-42

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WANTED—WINCHESTER 64 DEER .30-30 Carbine, Lyman 56 sight; cash for best offer. Daniel Fedory, R. D. #1, Schenectady, N. Y. 5-42

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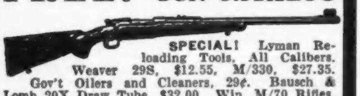

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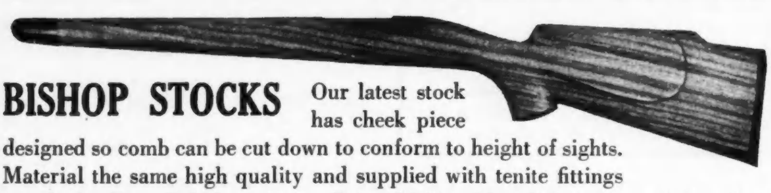

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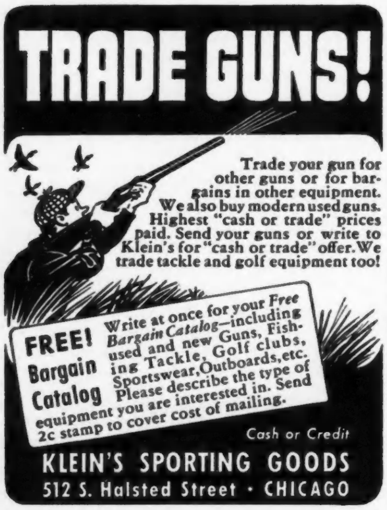

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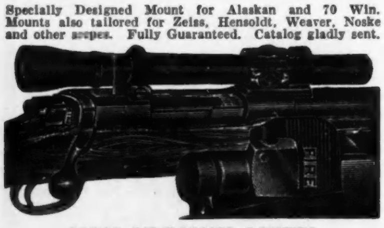

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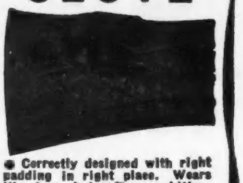

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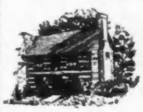

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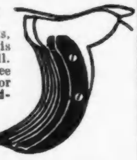

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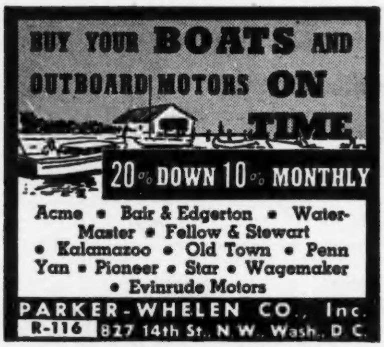

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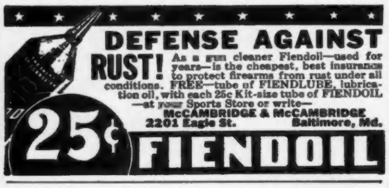
WANTED—SMITH & WESSON 357 MAGNUM, 6½ or 8⅜ inch barrel. State price and condition. All letters answered. J. Sutton, 10861 Fairbanks Way, Culver City, California. 5-42

WANTED—45 COLT AUTOMATIC. INSIDE must be excellent to very good. Will pay $20.00 to $30.00, depending on condition. Dr. Edwin Robison, 406 Peoples Life Bldg., Frankfort, Ind. 5-42



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PRACTICE ROD. READ "DOPE BAG", March issue 1942. Essex Target Practice Rod Company, 265 River Street, Orange, New Jersey. 5-42

WANTED—COMPLETE PARTS, SCHMITT 24, to change over for reloading .45 Auto and .30-06, using Military and Squibb 169 grain gas check bullets. State price and condition, all parts. H. B. Hansen, Auburn, N. J. 5-42

WILL EXCHANGE MANN'S "THE BULLET'S Flight from Powder to Target" for S. & W. Military and Police, 4 inch barrel round butt in new condition. Must be perfect, this model only. Louis D. Coriell, 205 Club Road, Baltimore, Maryland. 5-42

GOOD TO VERY GOOD 1911, 9MM D. W. M. Luger 3¾ inch, serviceable holster, $30.00. Good Colt D.A. 38, 3½ in. holster, $15.00. Colt 45 4¾ in. Frontier rebuilt at factory, finish poor, new cylinder, Ideal No. 4 tool, 50 new primed cases, $23.50. 44½ 32-40, fair, $9.00. Good 44½ action, $5.00. D.S. Pacific Ballard action, $5.00. WANT—Savage 1920 action or complete rifle. L. D. Pretch, Grace, Idaho. 5-42

FOR SALE: WINCHESTER 12 GAUGE PUMP Gun, Standard Trap. Rib on barrel. Excellent to perfect. Price $45.00. E. H. Thompson, 1501 13th Street, Altoona, Penna. 5-42

WANTED—MAUSER MATTED RIB BARREL, any caliber or condition. High Wall Winchester action, Ballard center fire block, engraved Ballard action. William Willis, Attica, Ind. 5-42

TRADE—WITH EXAMINATION PRIVILEGES, Wollensak Binoculars 8 x 30, leather case, new perfect condition, for, .30-06 Springfield Sporter as issued Star Gauge Barrel, perfect condition. WANT—Winchester Remington Primers .30-06, 38 Spl., NC-NM. H. O. Hatcher, 109 College St., Martinsville, Va. 5-42

WANTED—REMINGTON AUTO RIFLE MODEL 8 in good shooting condition, any cal., prefer 35, priced under $30.00. Lawrence Ramsey, Lebanon, New Jersey. 5-42

KRAG SPORTER BURL CHECKERED GOLD bead Lyman rear recoil pad, good, $30.00. Enfield, no rear sight, sporter stock, good, $34.00. Colt 38 Automatic, inside good, outside fair, $27.50. Several antique rifles in possession of Indians since Indian Wars. Rare Navajo ceremonial rugs. S. Wilson, Domingo, N. Mexico. 5-42

S & W 38 SP. REBLUED, GOOD, HOLSTER, Belt Shells, $25.00; Colt 32-20 6-inch Excellent plus, Holster, $35.00. Colt 32 Auto, Good, $20.00; another, excellent, $24.00. Savage 32 Auto, excellent, $24.00. Spanish 32 Auto, Fair, $8.00. 3⅝"-30 Luger, V-good, $37.50. Win. 33, solid frame, half magazine, excellent, $40.00; another, Takedown, excellent plus, $45.00. Sears 12-ga. Pump, 30-inch full, excellent plus, $34.00. Winchester 12-12-30", full, perfect, hard leather case, $62.00. Stevens 12-ga. Pump, reblued, good, $27.00. 410 Double, Hammers, good, $14.50. Iver Johnson 16-ga. single, perfect, $8.50. Meridan 12-ga., single, excellent, $7.00; ditto, Continental Arms, perfect, $8.00. Win. 75, perfect, 8X Scope, 10X Imperial Coat, Size 46, trunk, accessories, $50.00. Good Krag Sporter, $24.00. Ernest Juola, Eveleth, Minnesota. 5-42

SALE: WINCHESTER 70, .257, WJS REAR, blocks, excellent, 500, 100 gr. mush. bullets, 50 loaded cartridges, B. & M. bullet seater; complete outfit, $100.00. Ralph D. Baxter, Purcellville, Virginia. 5-42

BULLET MOULDS—A COLLECTION OF ABOUT four hundred Ideal moulds, all different, in every size from 22 to 57, all in boxes, all in good working order, for sale as *one lot*, for cash only, at the rate of one dollar each. W. B. Johnston, 3400 Columbia Parkway, Cincinnati, Ohio. 5-42

WANTED—S. & W. .357 MAGNUM REVOLVER, 8¾" barrel, excellent, prefer King reflector gold front, will give $75.00 or let me better best offer; or Colt Frontier .357 Cal., will give $50.00 for perfect, with 7½" barrel. Also want optically perfect 6X to 8X prism binoculars, Zeiss, Hensoldt, B. & L., etc.; late F. A. .45 Auto, .30-06, Krag ammunition. Swap shotgun buck loads. Wm. Abbott, Box 185, Wilton, N. H. 5-42

WANTED—2000 EACH, LARGE PISTOL AND large rifle primers, N.M.N.C. P. L. Hanscom, 9 North St., Fairfield, Maine. 5-42

TRADE—EXCELLENT SUPER .38 GOLD FRONT Lyman adjustable rear for National Match .45 Automatic or sell $50.00. A. W. Gordon, 2906 Gulf Bldg., Pittsburgh, Pa. 5-42

PERFECT 99EG SAVAGE 250-3000. FIRED only 20 rounds. WANT—$55.00 cash or same condition National Match Springfield, high serial. J. M. Lindstrum, General Delivery, Tiburon, Calif. 5-42

SPRINGFIELD, .45 ACP AND 1917 S. & W. parts. .45 ACP grips pair $1.80, 1917 S. & W. grips pair $1.00, 1917 S. & W. barrel new $7.00. .45 ACP barrel used, $1.00. .45 S.A. Colt cylinder excellent, $3.50. 1917 S. & W. cylinder new, $5.00. Mauser Military stock $2.50. Enfield .30-06 barrel new $7.50. Enfield 303 British action only $13.50. Springfield extractors $1.00. Springfield bolt complete $5.00. Money orders only. No C.O.D. Stamp please. Charles Sprenger, 3236 "A" St., Philadelphia, Pa. 5-42

WANTED—FECKER 1½" 10X SCOPE WITH click mounts, bases and dust caps, must be in perfect condition, will pay cash. Bruce Nicholls, R. #3, Creston, Iowa. 5-42

MONTE CARLO STOCK FOR BROWNING Superposed, good, $8.00. M12 12-30 full, latest model, $45.00. J. J. Frederick, Prophetstown, Ill. 5-42

SELL OR TRADE: EXCELLENT M-70-250-3000, Weaver 440, Colt Ace. WANT—38 Special Officers Model 4½", .357 Magnum 5", 300 Savage E.G. or RS. C. F. Hober, Belmont, N. Y. 5-42

WANTED—S. & W. K-22, 6" BARREL, STATE condition. Alfred Welch, 126 Forest Road, West Haven, Conn. 5-42

45 COLT, TWO KENTUCKIES, TOOLS, MOULDS, relics, archery tackle, list for stamp. Teddie Lunsford, 4214 North Second, Albuquerque, N. Mex. 5-42

WANTED—ITHACA MAGNUM 10X32. WILL pay cash. Alfred Hirt, 1916 Elm Street, Pine Bluff, Arkansas. 5-42

WANTED—270 WINCHESTER MODEL 12; ALSO good Hornet, all reasonable. Paul Dehner, Burlington, Iowa. 5-42

PISTOLS AND REVOLVERS. BUY, SELL or trade. Campbell Pharmacy, Peterborough, N. H. 5-42

.300 SAVAGE 99 RS, PERFECT, $65.00. ZEISS Super Ikonta B Special, perfect, new last September, case, $135.00. P. A. Glaeser, Waconia, Minnesota. 5-42

POPE UNION HILL BALLARD HEAVY BENCH rest rifle D.S. trigger .32-40, false muzzle, bullet starter, Pope mould. Very good. Best cash offer. Lloyd Burkett, 204 Wilson Ave., DuBois, Pa. 5-42

WANTED—EXCELLENT ENGRAVED BALLARD action; Smith & Wesson .38 Target Revolver; Colt Detective Special or Smith & Wesson, .38 Special, with two inch barrel. Gerald Cross, Lathrop, Missouri. 5-42

POPE BARRELED .30-06 SPRINGFIELD INTER Match No. 1231286. Garand Bolt, Elliot set triggers. Pope Bases, Lyman 48, had test shooting only. Scheutzen butt plate. First M.O. for $350.00. Will accept .357 S. & W. 6½" as part. J. J. Bartolat, P.O. Box 426, Whittier, Calif. 5-42

WANTED—EYEPIECES, ANY POWER, EITHER B. & L. or Argus. Gus Eberman, Geneva, Illinois. 5-42

WANTED—SMITH & WESSON REGULATION Police Revolver, Cal. .32, 4¼ or 6" barrel, fixed or target sights, condition perfect. R. Negley, Box 1058, San Antonio, Texas. 5-42

BERNS-MARTIN SPEED HOLSTER AND BELT for 38-44 Outdoorsman, $8.00. Fox Model B 410, perfect, $32.00. F. K. Wylie, 1816 De Pauw, New Albany, Indiana. 5-42

WANTED—SPRINGFIELD NATIONAL MATCH. Must be as issued and perfect. Price no object. Send complete details first letter. Harry J. Jackman, 286 Fisher Road, Grosse Pointe Farms, Michigan. 5-42

WANTED—COLT .45 AUTOMATIC WITH .22 Conversion Unit. Also 8X Binoculars. State price and condition. Bill Herring, U.S.S. Mustin (413), % Postmaster, San Francisco, Calif. 5-42

WANTED—GOOD 10 GAUGE MAGNUM SHOT Gun. Write Carl H. Porter, 207 E. Chestnut St., Yakima, Wash. 5-42

ANTIQUE FIRE ARMS. LIST DESCRIBing over 300 now ready. 15¢. Wm. Locke, 3607 Ault Park Road, Cincinnati, Ohio. 7-42

FOR SALE: 37 ITHACA 12-30 FULL, FIRED 40 rounds, recoil pad, perfect, $55.00. Iver Johnson Champion Single 20-28 full, nearly new, $9.00. WANT—Springfield Issue Rifle, perfect condition. Will pay $12.00 for 300 rounds 172 grain Boattail Issue late Ammunition. No C.O.D. Floyd E. Woodcox, Police Dept., Tecumseh, Mich. 5-42

WANTED—ONE PAIR OF USED CRAMPONS IN good condition. Albert G. Harvey, Chester, Montana. 5-42

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THERE are some things that have always been considered traditionally American. The neighborliness of a quilting bee. Fourth-of-July oratory. Apple pie . . . And included in the list should be hunting for everyone. Free, unrestricted hunting has been a distinctive American institution since the days of the Pilgrims.

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